



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 118660

TO: Nancy Vogel
Location: rem/2a65/2c70
Art Unit: 1636
Wednesday, April 07, 2004

Case Serial Number: 10/032393

From: Mary Jane Ruhl
Location: Biotech-Chem Library
Remsen 1-B55
Phone: 571-272-2524

maryjane.ruhl@uspto.gov

Search Notes

Examiner Vogel,

Here are the results for your recent search request.

Please feel free to contact me if you have any questions about these results.

Thank you for using STIC services. We appreciate the opportunity to serve you.

Sincerely,

Mary Jane Ruhl
Technical Information Specialist
STIC
CM-1, Rm. 6-A-06
605-1155

Pending Nucleic Acid and Pending Amino Acid database searches generate two sets of results each. The Pending databases have been split into two parts to reduce the amount of time required for their daily updates. This results in more machine time being available for processing searches.

Searches run against the Nucleic Acid Pending database produce two sets of results, with the extensions **.rnpm** and **.rnpn**

Searches run against the Amino Acid Pending database produce two sets of results, with the extensions **.rapm** and **.rapn**

Because they contain data that is confidential, the results of Pending database searches should not be left in the case .



STIC SEARCH RESULT FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher* or *contact*:

Mary Hale, Information Branch Supervisor
571-272-2507 Remsen E01 D86

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability)
- ☐ Results were not useful in determining patentability or understanding the invention

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library Remsen Bldg.



GenCore version 5.1.6
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OW nucleic - nucleic search, using sw model

Run on: April 7, 2004, 03:17:56 ; Search time 1681 Seconds

(without alignments)
1314.988 Million cell updates/sec

Title: US-10-032-393-36

Perfect score: 51
Sequence: 1 tcatataaatttatttgcct.....tttctgtatataagatcca 51

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 2167151695 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

GenEmbl: *
1: gb_ba: *
2: gb_hlg: *
3: gb_in: *
4: gb_om: *
5: gb_ov: *
6: gb_pat: *
7: gb_ph: *
8: gb_pl: *
9: gb_pr: *
10: gb_ro: *
11: gb_sts: *
12: gb_sy: *
13: gb_un: *
14: gb_vl: *
15: gb_ba: *
16: em_fun: *
17: em_hum: *
18: em_in: *
19: em_mu: *
20: em_om: *
21: em_or: *
22: em_ov: *
23: em_par: *
24: em_ph: *
25: em_pl: *
26: em_ro: *
27: em_sts: *
28: em_un: *
29: em_vl: *
30: em_hlg_hum: *
31: em_hlg_in: *
32: em_hlg_other: *
33: em_hlg_mus: *
34: em_hlg_pln: *
35: em_hlg_rsd: *
36: em_hlg_mam: *
37: em_hlg_vit: *
38: em_sy: *
39: em_hlgo_hum: *
40: em_hlgo_mus: *

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	51	100.0	60	6 A15398	A15398 Synthetic P
2	51	100.0	75	7 PMSW25	M1602 Bacterioph
3	51	100.0	202	6 A10374	A10374 Nucleotide
4	51	100.0	202	6 A11246	A11246 vector pDS2
5	51	100.0	202	6 E00936	E00936 DNA sequenc
6	51	100.0	207	6 A10375	A10375 Nucleotide
7	51	100.0	247	6 A11242	A11242 vector pDS1
8	51	100.0	259	6 A10373	A10373 Nucleotide
9	51	100.0	1113	6 A02739	A02739 Artificial
10	51	100.0	1113	6 A14592	A14592 Synthetic n
11	51	100.0	1221	6 A02296	A02296 Plasmid pDS
12	51	100.0	1221	6 A14593	A14593 Synthetic n
13	51	100.0	1866	6 A02237	A02237 Plasmid pDS
14	51	100.0	1866	6 A02235	A02235 Plasmid pDS
15	51	100.0	1866	6 A02740	A02740 Artificial
16	51	100.0	1866	6 A07053	A07053 Nucleotide
17	51	100.0	1866	6 A14594	A14594 Synthetic n
18	51	100.0	3403	6 A02228	A02228 Plasmid pDS
19	51	100.0	5767	6 AX035965	AX035965 Sequence
20	51	100.0	6000	12 U66308	U66308 Expression
21	51	100.0	6447	12 AF288421	AF288421 Synthetic
22	50	98.0	76	6 A11173	A11173 A T5 promot
23	46.4	91.0	524	12 SYNIFNGS	K01699 Human immun
24	46	90.2	73	6 A12013	A12013 oligonucleo
25	46	90.2	73	6 A12014	A12014 oligonucleo
26	42.8	83.9	83	6 A16630	A16630 Nucleotide
27	42.8	83.9	83	6 A16631	A16631 Nucleotide
28	39	76.5	68	6 E01976	E01976 DNA encodin
29	33.6	65.9	131	6 A50146	A50146 Sequence 3
30	33.4	65.5	125	6 A46760	A46760 Sequence 2
31	33.4	65.5	125	6 A46760	A46760 Sequence 2
32	31	65.5	125	6 A46760	A46760 Sequence 2
33	31	65.5	125	6 A46760	A46760 Sequence 2
34	33	64.7	132	12 A13088	A13088 Nucleotide
35	33	64.7	132	12 A13088	A13088 Nucleotide
36	33	64.7	132	12 A13088	A13088 Nucleotide
37	33	64.7	132	12 A13088	A13088 Nucleotide
38	33	64.7	132	12 A13088	A13088 Nucleotide
39	33	64.7	132	12 A13088	A13088 Nucleotide
40	33	64.7	132	12 A13088	A13088 Nucleotide
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42	33	64.7	132	12 A13088	A13088 Nucleotide
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44	33	64.7	132	12 A13088	A13088 Nucleotide
45	33	64.7	132	12 A13088	A13088 Nucleotide

ALIGNMENTS

RESULT 1
A15398
LOCUS A15398 60 bp DNA
DEFINITION Synthetic Phage T5 promoter P-N 25.
ACCESSION A15398
VERSION A15398.1 GI:1247805
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
Bujard, H. and Le Grice, S.
No. gram. localizing expression control sequences

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FEATURES
Source
Location/Qualifiers
1..60
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

ORIGIN
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Best Local Similarity 100.0%; Pred. No. 0.0089;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
1 TCATATAAAATTATTGCTTCAGAGAAATTTTCTGTATTAATAGATTCA 51
|||||
1 TCATATAAAATTATTGCTTCAGAGAAATTTTCTGTATTAATAGATTCA 51

Db
1 TCATATAAAATTATTGCTTCAGAGAAATTTTCTGTATTAATAGATTCA 51

RESULT 2
LOCUS PTSPN25 75 bp DNA linear PHG 28-APR-1993
DEFINITION Bacteriophage T5 promoter P-N 25.
ACCESSION M11602
VERSION M11602.1 GI:215985
KEYWORDS promoter region.
SOURCE Bacteriophage T5
ORGANISM Bacteriophage T5
VIRUSES; dsDNA viruses, no RNA stage; Caudovirales; Siphoviridae;
T5-like viruses.
1 (bases 1 to 75)
Gentz, R. and Bujard, H.
PROMOTERS recognized by Escherichia coli RNA polymerase selected by
function: highly efficient promoters from bacteriophage T5
JOURNAL J. Bacteriol. 164 (1), 70-77 (1985)
MEDLINE 86008105
PUBMED 3900050
COMMENT Original source text: Bacteriophage T5 DNA.
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Source
Location/Qualifiers
1..75
/organism="Bacteriophage T5"
/mol_type="genomic DNA"
/db_xref="taxon:10726"
56..>75
/misc_RNA /note="Bacteriophage T5 RNA"

ORIGIN
Undetermined.

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Best Local Similarity 100.0%; Pred. No. 0.0085;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
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|||||
6 TCATATAAAATTATTGCTTCAGAGAAATTTTCTGTATTAATAGATTCA 56

Db
6 TCATATAAAATTATTGCTTCAGAGAAATTTTCTGTATTAATAGATTCA 56

RESULT 3
LOCUS A10374 202 bp DNA linear PAT 22-SEP-1993
DEFINITION Nucleotide sequence 21 from patent number EP030325.
ACCESSION A10374
VERSION A10374.1 GI:490696
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.
1 (bases 1 to 202)
Bujard, H. and Lanzer, M.
HIGH REPRESSIBLE sequence for control of expression
Patent: EP 030325-A 21 22-FEB-1989;
F. HOFFMANN-LA ROCHE AG
FEATURES
Source
Location/Qualifiers
1..202
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"

ORIGIN
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Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
1 TCATATAAAATTATTGCTTCAGAGAAATTTTCTGTATTAATAGATTCA 51
|||||
124 TCATATAAAATTATTGCTTCAGAGAAATTTTCTGTATTAATAGATTCA 174

Db
124 TCATATAAAATTATTGCTTCAGAGAAATTTTCTGTATTAATAGATTCA 174

RESULT 4
LOCUS A11246 202 bp DNA linear PAT 12-NOV-1993
DEFINITION vector pDS2/PN25x/0.1oz+ XhoI/EcoRI fragment.
ACCESSION A11246
VERSION A11246.1 GI:491020
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 (bases 1 to 202)
AUTHORS Bujard, H. and Stueber, D.
TITLE New expression control sequence
JOURNAL Patent: EP 0186069-A 10 02-JUL-1986;
F. HOFFMANN-LA ROCHE AG
FEATURES
Source
Location/Qualifiers
1..202
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

ORIGIN
Query Match 100.0%; Score 51; DB 6; Length 202;
Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY
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|||||
124 TCATATAAAATTATTGCTTCAGAGAAATTTTCTGTATTAATAGATTCA 174

Db
124 TCATATAAAATTATTGCTTCAGAGAAATTTTCTGTATTAATAGATTCA 174

RESULT 5
LOCUS E00936 202 bp DNA linear PAT 29-SEP-1997
DEFINITION DNA sequence including promoter and operator hybrid 'P(N25X)'.
ACCESSION E00936
VERSION E00936.1 GI:2169197
KEYWORDS JP 1986181386-A/1.
SOURCE Escherichia coli
ORGANISM Escherichia coli
Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Escherichia.
1 (bases 1 to 202)
Heruman, B. and Delecoritsuhl, S.
NOVEL DEVELOPMENT REGULATING ARRANGEMENT
Patent: JP 1986181386-A 1 14-AUG-1986;
F. HOFFMANN LA ROCHE & CO AG
COMMENT
OS Escherichia coli
PN JP 1986181386-A/1
PD 14-AUG-1986
PF 16-DEC-1985 JP 1985282699
PR 17-DEC-1984 GB 84 8431818
PI HERUMAN BUKARUDO, DEITORITSUHI SUTHEYUBA
PC C12N15/00, C12N1/20, C12N9/10, C12P21/02, (C12N1/20, C12R1:19), PC
(C12N1/20,
PC C12R1:125), (C12N9/10, C12R1:19), (C12N9/10, C12R1:125), (C12P21/02, PC
C12R1:19),
PC (C12P21/02, C12R1:125);
CC strandedness: Single;
CC topology: linear;
CC hypothetical: No;
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CC anti-sense: No;
CC *source: strain=M15;
FH Key Location/Qualifiers
FH promoter 1..<173
FT /note='P25 promoter'
FT 174..>190
FT sig_peptide /note='lac operator'
FT Location/Qualifiers
1..202
/organism='Escherichia coli'
/mol_type='genomic DNA'
/db_xref='taxon:562'

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 202;
Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATATAAATTATTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
124 TCATATAAATTATTGCTTCAGGAAATTTTCTGTATATAGATTCA 174

RESULT 6
LOCUS A10375 207 bp DNA linear PAT 22-SEP-1993
DEFINITION Nucleotide sequence 22 from patent number EP0303925.
ACCESSION A10375
VERSION A10375.1 GI:490697

KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.

REFERENCE 1 (bases 1 to 207)
AUTHORS Bujard, H. and Lanzer, M.
TITLES High repressible sequence for control of expression
JOURNAL Patent: EP 0303925-A 22 FEB-1989;
F. HOFMANN-LA ROCHE AG

FEATURES
source 1..207
/organism='synthetic construct'
/mol_type='unassigned DNA'
/db_xref='taxon:32630'

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 207;
Best Local Similarity 100.0%; Pred. No. 0.0068;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATATAAATTATTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
124 TCATATAAATTATTGCTTCAGGAAATTTTCTGTATATAGATTCA 174

RESULT 7
LOCUS A11242 247 bp DNA linear PAT 12-NOV-1993
DEFINITION vector pDS1/PN25 XhoI-fragment carrying promoter Pn25 is displayed.
ACCESSION A11242
VERSION A11242.1 GI:491016

KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.

REFERENCE 1 (bases 1 to 247)
AUTHORS Bujard, H. and Stueber, D.
TITLES New expression control sequence
JOURNAL Patent: EP 0186069-A 6 02-JUL-1986;
F. HOFMANN-LA ROCHE AG

FEATURES
source 1..247
/organism='synthetic construct'

/mol_type='unassigned DNA'
/db_xref='taxon:32630'

Query Match 100.0%; Score 51; DB 6; Length 247;
Best Local Similarity 100.0%; Pred. No. 0.0065;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATATAAATTATTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
124 TCATATAAATTATTGCTTCAGGAAATTTTCTGTATATAGATTCA 174

RESULT 8
LOCUS A10373 259 bp DNA linear PAT 22-SEP-1993
DEFINITION Nucleotide sequence 20 from patent number EP0303925.
ACCESSION A10373
VERSION A10373.1 GI:490695

KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.

REFERENCE 1 (bases 1 to 259)
AUTHORS Bujard, H. and Lanzer, M.
TITLES High repressible sequence for control of expression
JOURNAL Patent: EP 0303925-A 20 FEB-1989;
F. HOFMANN-LA ROCHE AG

FEATURES
source 1..259
/organism='synthetic construct'
/mol_type='unassigned DNA'
/db_xref='taxon:32630'

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 259;
Best Local Similarity 100.0%; Pred. No. 0.0064;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATATAAATTATTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
130 TCATATAAATTATTGCTTCAGGAAATTTTCTGTATATAGATTCA 180

RESULT 9
LOCUS A02739 1113 bp DNA linear PAT 23-MAR-1993
DEFINITION Artificial sequence of plasmid pDS1/RBSII, 3A+5A (XhoI/XbaI fragment).

ACCESSION A02739
VERSION A02739.1 GI:345272
KEYWORDS chloramphenicol acetyltransferase.
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.

REFERENCE 1 (bases 1 to 1113)
AUTHORS Gentz, R., Le Grice, S., Mous, J. and Stueber, D.
TITLES ENV/GAG polypeptides
JOURNAL Patent: EP 0270114-A 5 08-JUN-1988;
F. HOFMANN-LA ROCHE AG

FEATURES
source 1..1113
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/mol_type='unassigned DNA'
/db_xref='taxon:32630'

CDS

225..947
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/db_xref='GI:345273'
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ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 1113;
Best Local Similarity 100.0%; Pred. No. 0.0047;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 125 TCATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 175

RESULT 10

LOCUS A14592 1113 bp DNA circular PAT 21-FEB-1994
DEFINITION Synthetic nucleotide sequence encoding chloramphenicol
acetyltransferase (plus 21 additional N-terminal amino acids).

ACCESSION A14592

VERSION A14592.1 GI:491830

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

FEATURES

source

CDS

gene

transl

product

protein

db_xref

db_xref

db_xref

db_xref

db_xref

db_xref

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db_xref

F. HOFFMANN-LA ROCHE AG

location/Qualifiers

1..1221

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/db_xref="taxon:32630"

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0.0046;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 125 TCATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 175

RESULT 12

LOCUS A14593 1221 bp DNA circular PAT 21-FEB-1994
DEFINITION Synthetic nucleotide sequence of the XhoI/XbaI fragment of
pDS6/RBSII,3A+5A.

ACCESSION A14593

VERSION A14593.1 GI:491832

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

FEATURES

source

gene

transl

product

protein

db_xref

db_xref

db_xref

db_xref

db_xref

db_xref

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db_xref

F. HOFFMANN-LA ROCHE AG

location/Qualifiers

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/db_xref="taxon:32630"

ORIGIN

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Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 125 TCATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 175

RESULT 13

LOCUS A02227 1866 bp DNA linear PAT 29-APR-1996
DEFINITION Plasmid pDS6/RBSII, Sphi DNA for XhoI/XbaI fragment.

ACCESSION A02227

VERSION A02227.1 GI:490286

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

FEATURES

source

gene

transl

product

protein

db_xref

db_xref

db_xref

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db_xref

db_xref

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db_xref

FEATURES
Source F. HOFFMANN-LA ROCHE AG
Location/Qualifiers
1. .1866

/organism="synthetic construct"
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ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0.0042;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATTAATAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
|||||
DB 125 TCATTAATAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 175

RESULT 14

LOCUS A02295 1866 bp DNA linear PAT 18-MAY-1993
DEFINITION Plasmid pDS8/RBSII, Sphi DNA XhoI/XbaI-fragment.
ACCESSION A02295
VERSION A02295.1 GI:345258

KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.

REFERENCE 1 (bases 1 to 1866)
AUTHORS Certa, U.; Gentz, R. and Takacs, B.
TITLE Plasmodium falciparum mefloquine resistance peptides
JOURNAL Patent: EP 0283829-A 16 28-SEP-1988;
F. HOFFMANN-LA ROCHE AG

FEATURES
Source Location/Qualifiers
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/db_xref="taxon:32630"

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 1866;
Best Local Similarity 100.0%; Pred. No. 0.0042;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATTAATAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
|||||
DB 125 TCATTAATAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 175

RESULT 15

LOCUS A02740 1866 bp DNA linear PAT 23-MAR-1993
DEFINITION Artificial sequence of pDS8/RBSII plasmid (XhoI/XbaI fragment).
ACCESSION A02740
VERSION A02740.1 GI:345274
KEYWORDS dihydrofolate reductase.
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.

REFERENCE 1 (bases 1 to 1866)
AUTHORS Gentz, R., Le Grice, S., Mous, J. and Stueber, D.
TITLE ENV/GAG polypeptides
JOURNAL Patent: EP 0270114-A 6 08-JUN-1988;
F. HOFFMANN-LA ROCHE AG

FEATURES
Source Location/Qualifiers
1. .1866

/organism="synthetic construct"
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/db_xref="taxon:32630"
225. .806
/codon_start=1
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/product="dihydrofolate reductase"

ORIGIN

Query Match 100.0%; Score 51; DB 6; Length 1866;
Best Local Similarity 100.0%; Pred. No. 0.0042;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATTAATAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
|||||
DB 125 TCATTAATAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 175

Search completed: April 7, 2004, 04:52:05
Job time : 1683 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 7, 2004, 02:08:25 ; Search time 244 Seconds

(without alignments)
887,943 Million cell updates/sec

Title: US-10-032-393-36

Perfect score: 51
Sequence: 1 tcaataaaatatttgcgtcttctctgataatgattca 51

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_29Jan04:*
1: Geneseq1380s:*
2: Geneseq1390s:*
3: Geneseq12000s:*
4: Geneseq12001as:*
5: Geneseq12001bs:*
6: Geneseq12002s:*
7: Geneseq12003as:*
8: Geneseq12003bs:*
9: Geneseq12003cs:*
10: Geneseq12004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	51	100.0	51	ABK98620	Abk98620 Gram posi
2	51	100.0	51	ACD13871	Acid13871 Xyl-T5 pr
3	51	100.0	60	AAH70573	Aah70573 Coliphage
4	51	100.0	72	AAH74868	Aah74868 Oligonuci
5	51	100.0	80	AAH74869	Aah74869 Oligonuci
6	51	100.0	80	ABK98610	Abk98610 Gram posi
7	51	100.0	80	ABK98610	Abk98610 Xyl-T5 fu
8	51	100.0	94	ABK98589	Abk98589 Xyl-T5 fu
9	51	100.0	94	ACD13840	Acid13840 Oligonuci
10	51	100.0	95	ABK98590	Abk98590 Xyl-T5 f
11	51	100.0	95	ACD13841	Acid13841 Oligonuci
12	51	100.0	200	AAH91066	Aah91066 Control s
13	51	100.0	202	AAH60262	Aah60262 Plasmid p
14	51	100.0	207	AAH91067	Aah91067 Control s
15	51	100.0	247	AAH60259	Aah60259 Coliphage
16	51	100.0	259	AAH91065	Aah91065 Control s
17	51	100.0	556	ABK98585	Abk98585 Gram posi
18	51	100.0	556	ACD13836	Acid13836 Xyl-T5 fu
19	51	100.0	1113	AAH80481	Aah80481 XhoI/XbaI
20	51	100.0	1221	AAH81153	Aah81153 XhoI/XbaI
21	51	100.0	1866	AAH80482	Aah80482 XhoI/XbaI
22	51	100.0	1866	AAH81356	Aah81356 Sequence

24	51	100.0	1866	1	AAH80955	Aah80955 XhoI-XbaI
25	51	100.0	3403	3	AAH80956	Aah80956 Plasmid p
26	51	100.0	5302	3	AAH8012	Aah8012 Expressio
27	51	100.0	5767	3	AAH8014	Aah8014 Expressio
28	51	100.0	6852	6	ABK98600	Abk98600 Vector px
29	51	100.0	6852	6	ACD13851	Acid13851 Xyl-T5 opera
30	50	98.0	1246	4	AAH50517	Aah50517 Staphyloc
31	46	90.2	77	1	AAH70113	Aah70113 Sequence
32	43	84.3	51	6	ABK98621	Abk98621 Gram posi
33	43	84.3	51	6	ACD13872	Acid13872 Xyl-T5 mu
34	43	84.3	80	6	ABK98611	Abk98611 Gram posi
35	43	84.3	80	6	ABK98612	Abk98612 Xyl-T5 mu
36	43	84.3	94	8	ABK98606	Abk98606 Xyl-T5 DD
37	43	84.3	94	8	ACD13857	Acid13857 Xyl-T5 mu
38	43	84.3	95	6	ABK98607	Abk98607 Xyl-T5 DD
39	43	84.3	6852	6	ABK98637	Abk98637 Vector px
40	43	84.3	6852	8	ACD13888	Acid13888 Xyl-T5 mu
41	42.8	83.9	83	1	AAH81195	Aah81195 Beta-lact
42	39.4	77.3	80	1	AAH80462	Aah80462 Expressio
43	39	76.5	68	1	AAH81260	Aah81260 Hybrid pr
44	36.4	71.4	41	1	AAH90998	Aah90998 Fragments
45	33.4	65.5	125	2	AAH04945	Aah04945 Fragment

ALIGNMENTS

RESULT 1
ID ABK98620 standard; DNA; 51 BP.
AC ABK98620;
XX
AC 07-AUG-2003 (revised)
XX
DT 21-OCT-2002 (first entry)
XX
DE Gram positive bacteria Xyl-T5 fusion promoter #3.
XX
DE ds; promoter; gram positive bacteria; fusion promoter; T5; CP25; P32;
XX P59; P1P2; PU; xylO; teco; tpo; malO; lamBdacio; cellular proliferation;
XX antibiotic.
XX
XX Eubacteria.
OS Bacteriophage T5.
OS Synthetic.
XX
XX WO200251982-A2.
XX
XX 04-JUL-2002.
XX
XX 21-DEC-2001; 2001WO-US050250.
XX
XX 27-DEC-2000; 2000US-0259434P.
PR 06-SEP-2001; 2001US-00948993.
XX
XX (ELIT-) ELITRA PHARM INC.
XX
XX Haselbeck R, Wall D, Gross M;
XX
XX MPI; 2002-575374/61.
XX
XX Isolated nucleic acid comprises bacterial promoters modified to have
XX promoter comprising at least one promoter that is modified to have
XX altered activity in at least one gram-positive organism, or comprising
XX in bacteria.
XX
XX Claim 2; Page 219; 246pp; English.
XX
XX The invention relates to an isolated nucleic acid comprising a fusion
XX promoter comprising at least one promoter that is modified to have
XX altered activity in at least one gram-positive organism, or comprising
XX T5, CP25, P32, P59, P1P2 or PU linked to at least one operator consisting

CC positioned so binding of a repressor to an operator represses
CC transcription from the fusion promoter. Also included are vectors and
CC host cells comprising the fusion promoters, a method of identifying genes
CC involved in cellular proliferation or required for proliferation of a
CC prokaryotic cell using the vector, a method of identifying compounds that
CC inhibit the proliferation of a prokaryotic cell using the vector, a
CC method of identifying a compound that reduces the activity or level of a
CC gene product required for proliferation of a cell using the vector, a
CC compound identified by the methods, a method of inhibiting the activity
CC or expression of a gene in an operon required for proliferation using the
CC vector, manufacturing an antibiotic comprising using the vector or cell
CC and identifying a nucleic acid with promoter activity in *Enterococcus*
CC faecalis. The fusion promoters are useful for regulating nucleic acid or
CC polypeptide expression, particularly for regulating gene expression in
CC bacteria and for identifying proliferation-regulated genes or molecules
CC with potential antibiotic activity. The modified promoters are also
CC useful for replacing endogenous promoters to create cells with specific
CC regulatable genes. The present sequence is a fusion promoter sequence of
CC the invention. (Updated on 07-AUG-2003 to correct OS field.)
CC
CC
SQ

Sequence 51 BP; 19 A; 5 C; 5 G; 22 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 6; Length 51;
Best Local Similarity 100.0%; Pred. No. 2.1e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATATAAAATTATTGCTTCAGAAATTTTCTGTATATAGATTCA 51
DB 1 TCATATAAAATTATTGCTTCAGAAATTTTCTGTATATAGATTCA 51

RESULT 2
ACD13871
ID ACD13871 standard; DNA; 51 BP.

AC ACD13871;

DT 15-AUG-2003 (first entry)

DE Xyl-T5 promoter sequence.

KW Promoter; ds; gram positive bacteria; *Staphylococcus aureus*;

KM *Enterococcus faecalis*; operator; xylO; tetO; trpO; malO; lambda-c10;
cellular proliferation.

OS Bacteriophage T5.

OS Unidentified.

PN US2003027286-A1.

PD 06-FEB-2003.

PF 21-DEC-2001; 2001US-00032393.

PR 06-SEP-2000; 2000US-0230335P.

PR 27-DEC-2000; 2000US-0259434P.

PA (HASE/) HASELBECK R.

PA (WALL/) WALL D.

PA (GROSS/) GROSS M.

PI Haselbeck R, Wall D, Gross M;

DR WPI; 2003-479541/45.

PT New isolated nucleic acid comprising a fusion promoter having at least
PT one promoter that is modified to have altered activity in at least one
PT gram-positive organism, useful for regulating gene expression in
PT bacteria.

PS Claim 2; Page 80; 142pp; English.

CC The invention relates to an isolated nucleic acid comprising a fusion promoter having at least one promoter that is modified to have altered activity in at least one gram-positive organism, useful for regulating gene expression in bacteria.

CC promoter having at least one promoter that is modified to have altered
CC activity in at least one gram-positive organism (e.g. *Staphylococcus*
CC *aureus* or *Enterococcus faecalis*). The promoter is linked to at least one
CC operator selected from xylO, tetO, trpO, malO and lambda-c10, which are
CC positioned such that the binding of at least one repressor to the
CC operator represses transcription from the fusion promoter. Also included
CC are a vector comprising the isolated nucleic acid, a host cell comprising
CC the nucleic acid. The fusion promoter is useful for identifying genes
CC involved in cellular proliferation, identifying a compound that reduces
CC the activity or level of a gene product required for proliferation of a
CC cell, inhibiting the activity or expression of a gene in an operon
CC required for proliferation, manufacturing an antibiotic, identifying a
CC gene that is required for proliferation of a prokaryotic cell,
CC identifying a compound that inhibits the proliferation of a prokaryotic
CC cell and regulating gene expression in bacteria. The present sequence is
CC a bacterial promoter suitable for inclusion in a fusion promoter of the
CC invention
CC
CC
SQ

Sequence 51 BP; 19 A; 5 C; 5 G; 22 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 8; Length 51;
Best Local Similarity 100.0%; Pred. No. 2.1e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATATAAAATTATTGCTTCAGAAATTTTCTGTATATAGATTCA 51
DB 1 TCATATAAAATTATTGCTTCAGAAATTTTCTGTATATAGATTCA 51

RESULT 3
AAN70573
ID AAN70573 standard; DNA; 60 BP.

AC AAN70573;

DT 25-MAR-2003 (revised)

DT 11-MAR-1991 (first entry)

DE Coliphage T5 promoter of *Bacillus subtilis* expression vector.

KW Expression vector; dihydrofolate reductase; IL-2; insulin; HTLV-III; tPA;

KM human renin; ds.

OS Coliphage T5.

PH Key Location/Qualifiers

FT -35_signal 16..21

FT /*tag= a 39..44

FT -10_signal /*tag= b

FT FT

FT FT

FT FT

FT FT

PN BP207459-A.

PD 07-JAN-1987.

PF 27-JUN-1986; 86EP-00108774.

PR 05-JUL-1985; 85GB-00017071.

PR (HOFF) HOFFMANN-LA ROCHE AG.

PI Bujard H, Legrice S;

DR WPI; 1987-001183/01.

PT New gram positive expression control DNA sequences - useful for potent
PT and versatile gene expression of prokaryotic or eukaryotic proteins in
PT bacillus subtilis etc.

PS Disclosure; Table I; 53pp; English.

CC The gene fragment may be incorporated into a novel expression vector, for
CC expression of a gene product in a prokaryotic or eukaryotic host cell.

CC Bacillus subtilis. Proteins which may be encoded include: dihydrofolate
CC reductase; chloramphenicol acetyltransferase; malaria surface antigens;
CC IL-2; interferons; insulin; CPA; human renin and HIV-III. (Updated on 25
CC -MAR-2003 to correct PI field.)
XX

SQ Sequence 60 BP; 23 A; 5 C; 6 G; 26 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 1; Length 60;
Best Local Similarity 100.0%; Pred. No. 2,1e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCATATAAAATTTATTTGCTTCAGAAATTTTCGTATATAGATTCA 51
DB 1 TCATATAAAATTTATTTGCTTCAGAAATTTTCGTATATAGATTCA 51

RESULT 4
AAH74868
ID AAH74868 standard; DNA; 72 BP.

XX
AC AAH74868;

DT 29-OCT-2001 (first entry)

DE Oligonucleotide used to create T5 promoter.

XX Recombinase; genetic engineering; monogenic disorder; ADA deficiency;
XX cystic fibrosis; familial-hypercholesterolaemia; haemophilia;
XX chronic granulomatous disease; Duchenne's muscular dystrophy;
XX Fanconi's disease; anemia; sickle-cell anemia; Gaucher's disease;
XX Hunter's syndrome; X-linked severe combined immunodeficiency; SCID;
XX infectious disease; acquired disorder; tumour; cancer; T5 promoter; ss.
OS Synthetic.

PN WO200161049-A1.

PD 23-AUG-2001.

PF 16-FEB-2001; 2001WO-US005269.

PR 18-FEB-2000; 2000US-0183759P.

PA (STRD) UNIV IELAND STANFORD JUNIOR.

PI Calos MP, Scilimenti CR;

DR WPI; 2001-522610/57.

PT Identifying altered recombinase, involves hybridizing recombination sites
PT in cells having specific coding sequence, transformed with altered
PT recombinase gene, and isolating cells having product of the sequence.

PS Disclosure; Page 59; 101pp; English.

XX The specification describes a method for identifying altered
XX recombinases. The method comprises transforming cells with a first
XX plasmid comprising two recombination sites and a coding sequence of
XX interest, and a second plasmid encoding an altered recombinase; allowing
XX recombination of the two recombination sites using the altered
XX recombinase; screening and isolating transformed cells comprising the
XX product of the sequence of interest; and identifying the altered
XX recombinase. The altered recombinase is useful for site-specifically
XX integrating a polynucleotide sequence of interest in a genome of a cell.
XX It is also useful in genetic engineering of chromosomes of higher cells,
XX and for the generation of transgenic cells, tissues, plants and animals.
XX The altered recombinase is useful for treating monogenic disorders, e.g.
XX ADA deficiency, cystic fibrosis, familial-hypercholesterolaemia, anemia,
XX chronic granulomatous disease, Duchenne's muscular dystrophy,
XX haemophilia, Fanconi's disease, sickle-cell anemia, Gaucher's disease,
XX Hunter's syndrome and X-linked severe combined immunodeficiency (SCID),
XX infectious diseases including viral and bacterial infections, acquired
XX disorders including solid tumours and haematopoietic cancers such as

CC Leukaemias and lymphomas, and other cancers. Oligonucleotides AAH74868-69
CC were used to create the T5 promoter, which was used to construct a
CC plasmid for use in the course of the invention
XX

SQ Sequence 72 BP; 27 A; 6 C; 11 G; 28 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 4; Length 72;
Best Local Similarity 100.0%; Pred. No. 2,1e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCATATAAAATTTATTTGCTTCAGAAATTTTCGTATATAGATTCA 51
DB 2 TCATATAAAATTTATTTGCTTCAGAAATTTTCGTATATAGATTCA 52

RESULT 5
AAH74869/C
ID AAH74869 standard; DNA; 80 BP.

XX
AC AAH74869;

DT 29-OCT-2001 (first entry)

DE Oligonucleotide used to create T5 promoter.

XX Recombinase; genetic engineering; monogenic disorder; ADA deficiency;
XX cystic fibrosis; familial-hypercholesterolaemia; haemophilia;
XX chronic granulomatous disease; Duchenne's muscular dystrophy;
XX Fanconi's disease; anemia; sickle-cell anemia; Gaucher's disease;
XX Hunter's syndrome; X-linked severe combined immunodeficiency; SCID;
XX infectious disease; acquired disorder; tumour; cancer; T5 promoter; ss.
OS Synthetic.

PN WO200161049-A1.

PD 23-AUG-2001.

PF 16-FEB-2001; 2001WO-US005269.

PR 18-FEB-2000; 2000US-0183759P.

PA (STRD) UNIV IELAND STANFORD JUNIOR.

PI Calos MP, Scilimenti CR;

DR WPI; 2001-522610/57.

PT Identifying altered recombinase, involves hybridizing recombination sites
PT in cells having specific coding sequence, transformed with altered
PT recombinase gene, and isolating cells having product of the sequence.

PS Disclosure; Page 59; 101pp; English.

XX The specification describes a method for identifying altered
XX recombinases. The method comprises transforming cells with a first
XX plasmid comprising two recombination sites and a coding sequence of
XX interest, and a second plasmid encoding an altered recombinase; allowing
XX recombination of the two recombination sites using the altered
XX recombinase; screening and isolating transformed cells comprising the
XX product of the sequence of interest; and identifying the altered
XX recombinase. The altered recombinase is useful for site-specifically
XX integrating a polynucleotide sequence of interest in a genome of a cell.
XX It is also useful in genetic engineering of chromosomes of higher cells,
XX and for the generation of transgenic cells, tissues, plants and animals.
XX The altered recombinase is useful for treating monogenic disorders, e.g.
XX ADA deficiency, cystic fibrosis, familial-hypercholesterolaemia, anemia,
XX chronic granulomatous disease, Duchenne's muscular dystrophy,
XX haemophilia, Fanconi's disease, sickle-cell anemia, Gaucher's disease,
XX Hunter's syndrome and X-linked severe combined immunodeficiency (SCID),
XX infectious diseases including viral and bacterial infections, acquired
XX disorders including solid tumours and haematopoietic cancers such as
XX leukaemias and lymphomas and other cancers. Oligonucleotides AAH74868-69

CC were used to create the T5 promoter, which was used to construct a
CC plasmid for use in the course of the invention
XX
SQ Sequence 80 BP; 29 A; 14 C; 9 G; 28 T; 0 U; 0 Other;
Query Match 100.0%; Score 51; DB 4; Length 80;
Best Local Similarity 100.0%; Pred. No. 2.1e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 75 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 25
RESULT 6
ABK98610
ID ABK98610 standard; DNA; 80 BP.
XX
AC ABK98610;
XX
DT 07-AUG-2003 (revised)
DT 21-OCT-2002 (first entry)
XX
DE Gram positive bacteria Xyl-T5 fusion promoter #2.
XX
KM ds; promoter; gram positive bacteria; fusion promoter; T5; CP25; P32;
KM P59; P1P2; Pl; xylO; tetO; trpO; malO; lambdaclO; cellular proliferation;
KM antibiotic.
XX
OS Eubacteria.
OS Bacteriophage T5.
OS Synthetic.
XX
PN WO200251982-A2.
XX
PD 04-JUL-2002.
XX
PF 21-DEC-2001; 2001WO-US050250.
XX
PR 27-DEC-2000; 2000US-0259434P.
PR 06-SEP-2001; 2001US-00948993.
XX
XX (ELIT-) ELITRA PHARM INC.
XX
PI Haselbeck R, Wall D, Gross M;
XX
XX WPI; 2002-575374/61.
XX
PT Isolated nucleic acid comprises bacterial promoters modified to have
PT altered activity in at least one gram-positive organism, e.g. Bacillus
PT anthracis or Clostridium botulinum, useful for regulating gene expression
PT in bacteria.
XX
PS Claim 24; Page 217; 246pp; English.
XX
XX The invention relates to an isolated nucleic acid comprising a fusion
CC promoter comprising at least one promoter that is modified to have
CC altered activity in at least one gram-positive organism, or comprising
CC T5, CP25, P32, P59, P1P2 or Pl linked to at least one operator consisting
CC of xylO, tetO, trpO, malO or lambdaclO, where at least one operator is
CC positioned so binding of a repressor to an operator represses
CC transcription from the fusion promoter. Also included are vectors and
CC host cells comprising the fusion promoters; a method of identifying genes
CC involved in cellular proliferation or required for proliferation of a
CC prokaryotic cell using the vector; a method of identifying compounds that
CC inhibit the proliferation of a prokaryotic cell using the vector; a
CC method of identifying a compound that reduces the activity or level of a
CC gene product required for proliferation of a cell using the vector; a
CC compound identified by the methods; a method of inhibiting the activity
CC or expression of a gene in an operon required for proliferation using the
CC vector; manufacturing an antibiotic comprising using the vector or cell
CC and identifying a nucleic acid with promoter activity in Enterococcus
CC faecalis. The fusion promoters are useful for regulating nucleic acid or

CC polypeptide expression, particularly for regulating gene expression in
CC bacteria and for identifying proliferation-required genes or molecules
CC with potential antibiotic activity. The modified promoters are also
CC useful for replacing endogenous promoters to create cells with specific
CC regulatable genes. The present sequence is a fusion promoter sequence of
CC the invention. (Updated on 07-AUG-2003 to correct OS field.)
XX
SQ Sequence 80 BP; 29 A; 8 C; 8 G; 35 T; 0 U; 0 Other;
Query Match 100.0%; Score 51; DB 6; Length 80;
Best Local Similarity 100.0%; Pred. No. 2.1e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 1 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
RESULT 7
ACD13861
ID ACD13861 standard; DNA; 80 BP.
XX
AC ACD13861;
XX
DT 15-AUG-2003 (first entry)
DT Xyl-T5 fusion promoter #1.
XX
DE Xyl-T5 fusion promoter #1.
XX
KM Promoter; ds; gram positive bacteria; Staphylococcus aureus;
KM Enterococcus faecalis; operator; xylO; tetO; trpO; malO; lambda-clO;
KM cellular proliferation.
XX
XX Bacteriophage T5.
OS Unidentified.
OS
PN US2003027286-A1.
XX
PD 06-FEB-2003.
XX
PF 21-DEC-2001; 2001US-00032393.
XX
PR 06-SEP-2000; 2000US-0230335P.
PR 27-DEC-2000; 2000US-0259434P.
XX
XX (HASE/) HASELBECK R.
XX (WALL/) WALL D.
XX (GROSS/) GROSS M.
XX
PI Haselbeck R, Wall D, Gross M;
XX
XX WPI; 2003-479541/45.
XX
PT New isolated nucleic acid comprising a fusion promoter having at least
PT one promoter that is modified to have altered activity in at least one
PT gram-positive organism, useful for regulating gene expression in
PT bacteria.
XX
PS Claim 24; Page 78; 142pp; English.
XX
XX The invention relates to an isolated nucleic acid comprising a fusion
CC promoter having at least one promoter that is modified to have altered
CC activity in at least one gram-positive organism (e.g. Staphylococcus
CC aureus or Enterococcus faecalis). The promoter is linked to at least one
CC operator selected from xylO, tetO, trpO, malO and lambda-clO, which are
CC positioned such that the binding of at least one repressor to the
CC operator represses transcription from the fusion promoter. Also included
CC are a vector comprising the isolated nucleic acid, a host cell comprising
CC the nucleic acid. The fusion promoter is useful for identifying genes
CC involved in cellular proliferation, identifying a compound that reduces
CC the activity or level of a gene product required for proliferation of a
CC cell, inhibiting the activity or expression of a gene in an operon
CC required for proliferation, manufacturing an antibiotic, identifying a
CC gene that is required for proliferation of a prokaryotic cell,

CC identifying a compound that inhibits the proliferation of a prokaryotic
CC cell and regulating gene expression in bacteria. The present sequence is
CC a fusion promoter of the invention
XX

SQ Sequence 80 BP; 29 A; 8 C; 8 G; 35 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 6; Length 80;

Best Local Similarity 100.0%; Pred. No. 2.1e-05; Mismatches 0; Indels 0; Gaps 0;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCATATAAAATTTATTTGCTTCAGAAATTTTCTGTATATAGATTCA 51
Db 1 TCATATAAAATTTATTTGCTTCAGAAATTTTCTGTATATAGATTCA 51

RESULT 8
ABK98589
ID ABK98589 standard; DNA; 94 BP.
XX
AC ABK98589;
XX

XX 07-AUG-2003 (revised)
DT 21-OCT-2002 (first entry)
XX

XX Xy10-T5 fusion promoter oligonucleotide #1.

XX ss; promoter; gram positive bacteria; fusion promoter; T5; CP25; P32;
KM P59; P1P2; Pl; xylO; teto; trpO; malO; lambdaclO; cellular proliferation;
KM antibiotic.

XX Eubacteria.
OS Bacteriophage T5.
OS Synthetic.

XX WO200251982-A2.

XX 04-JUL-2002.

XX 21-DEC-2001; 2001WO-US050250.

XX 27-DEC-2000; 2000US-0259434P.

XX 06-SEP-2001; 2001US-00948993.

XX (ELIT-) ELITRA PHARM INC.

XX PI Haselbeck R, Wall D, Gross M;

XX WPI; 2002-575374/61.

XX Isolated nucleic acid comprises bacterial promoters modified to have
PT altered activity in at least one gram-positive organism, e.g. *Bacillus*
PT *anthracis* or *Clostridium botulinum*, useful for regulating gene expression
PT in bacteria.

XX Example 1; Page 81; 246pp; English.

XX The invention relates to an isolated nucleic acid comprising a fusion
CC promoter comprising at least one promoter that is modified to have

CC altered activity in at least one gram-positive organism, or comprising
CC T5, CP25, P32, P59, P1P2 or Pl linked to at least one operator consisting
CC of xylO, teto, trpO, malO or lambdaclO, where at least one operator is
CC positioned so binding of a repressor to an operator represses

CC transcription from the fusion promoter. Also included are vectors and
CC host cells comprising the fusion promoters, a method of identifying genes
CC involved in cellular proliferation or required for proliferation of a

CC prokaryotic cell using the vector, a method of identifying compounds that
CC inhibit the proliferation of a prokaryotic cell using the vector, a

CC method of identifying a compound that reduces the activity or level of a
CC gene product required for proliferation of a cell using the vector, a

CC compound identified by the methods, a method of inhibiting the activity
CC or expression of a gene in an operon required for proliferation using the
CC vector, manufacturing an antibiotic comprising using the vector or cell

CC and identifying a nucleic acid with promoter activity in *Enterococcus*

CC faecalis. The fusion promoters are useful for regulating nucleic acid or
CC polypeptide expression, particularly for regulating gene expression in
CC bacteria and for identifying proliferation-regulated genes or molecules

CC with potential antibiotic activity. The modified promoters are also
CC useful for replacing endogenous promoters to create cells with specific
CC regulatable genes. The present sequence is an oligonucleotide used to
CC construct a fusion promoter sequence of the invention. (Updated on 07-AUG
CC -2003 to correct OS field.)

SQ Sequence 94 BP; 35 A; 10 C; 12 G; 37 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 6; Length 94;

Best Local Similarity 100.0%; Pred. No. 2.1e-05; Mismatches 0; Indels 0; Gaps 0;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TCATATAAAATTTATTTGCTTCAGAAATTTTCTGTATATAGATTCA 51
Db 6 TCATATAAAATTTATTTGCTTCAGAAATTTTCTGTATATAGATTCA 56

RESULT 9
ACD13840
ID ACD13840 standard; DNA; 94 BP.
XX
AC ACD13840;
XX

XX 15-AUG-2003 (first entry)

XX Oligonucleotide Xyl-T5.

XX Promoter; ss; gram positive bacteria; *Staphylococcus aureus*;

XX *Enterococcus faecalis*; operator; xylO; teto; trpO; malO; lambda-clO;

XX cellular proliferation.

XX *Escherichia coli*.

XX Synthetic.

XX Unidentified.

XX US2003027286-A1.

XX 06-FEB-2003.

XX 21-DEC-2001; 2001US-00032393.

XX 06-SEP-2000; 2000US-0230335P.

XX 27-DEC-2000; 2000US-0259434P.

XX (HASE/) HASELBECK R.

XX (WALL/) WALL D.

XX (GROS/) GROSS M.

XX PI Haselbeck R, Wall D, Gross M;

XX WPI; 2003-479541/45.

XX Example 1; Page 28; 142pp; English.

XX New isolated nucleic acid comprising a fusion promoter having at least
PT one promoter that is modified to have altered activity in at least one

PT gram-positive organism, useful for regulating gene expression in
PT bacteria.

XX The invention relates to an isolated nucleic acid comprising a fusion
CC promoter having at least one promoter that is modified to have altered

CC activity in at least one gram-positive organism (e.g. *Staphylococcus*
CC *aureus* or *Enterococcus faecalis*). The promoter is linked to at least one

CC operator selected from xylO, teto, trpO, malO and lambda-clO, which are
CC positioned such that the binding of at least one repressor to the

CC operator represses transcription from the fusion promoter. Also included
CC are a vector comprising the isolated nucleic acid, a host cell comprising
CC the nucleic acid. The fusion promoter is useful for identifying genes
CC involved in cellular proliferation, identifying a compound that reduces
CC the activity or level of a gene product required for proliferation of a

CC cell, inhibiting the activity or expression of a gene in an operon
 CC required for proliferation, manufacturing an antibiotic, identifying a
 CC gene that is required for proliferation of a prokaryotic cell,
 CC identifying a compound that inhibits the proliferation of a prokaryotic
 CC cell and regulating gene expression in bacteria. The present sequence is
 CC an oligonucleotide used in the construction of a fusion promoter of the
 CC invention

SQ Sequence 94 BP, 35 A, 10 C, 12 G, 37 T, 0 U, 0 Other;

Query Match 100.0%; Score 51; DB 8; Length 94;
 Best Local Similarity 100.0%; Pred. No. 2.1e-05;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATTAATAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
 DB 6 TCATTAATAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 56

RESULT 10
 ABR98590/c
 ID ABR98590 standard; DNA; 95 BP.

XX ABR98590;
 AC
 XX 07-AUG-2003 (revised)
 DT 21-OCT-2002 (first entry)

XX Xy10-T5 fusion promoter oligonucleotide #2.

XX ss; promoter; gram positive bacteria; fusion promoter; T5; CP25; P32;
 KW P59; P1P2; Pl; xylO; teco; trpO; malO; lambdaclO; cellular proliferation;
 KW antibiotic.

XX Eubacteria.
 OS Bacteriophage T5.
 OS Synthetic.

XX MO200251982-A2.

XX 04-JUL-2002.

XX 21-DEC-2001; 2001WO-US050250.

XX 27-DEC-2000; 2000US-0259434P.

XX 06-SEP-2001; 2001US-00948993.

XX (ELIT-) ELITRA PHARM INC.

XX Haselbeck R, Wall D, Gross M;

XX WPI; 2002-575374/61.

XX Isolated nucleic acid comprises bacterial promoters modified to have
 PT altered activity in at least one gram-positive organism, e.g. *Bacillus*
 PT *anthracis* or *Clostridium botulinum*, useful for regulating gene expression
 PT in bacteria.

XX Example 1; Page 81; 246pp; English.

XX The invention relates to an isolated nucleic acid comprising a fusion
 CC promoter comprising at least one promoter that is modified to have
 CC altered activity in at least one gram-positive organism, or comprising
 CC T5, CP25, P32, P59, P1P2 or Pl linked to at least one operator consisting
 CC of xylO, teco, trpO, malO or lambdaclO, where at least one operator is
 CC positioned so binding of a repressor to an operator represses
 CC transcription from the fusion promoter. Also included are vectors and
 CC host cells comprising the fusion promoters, a method of identifying genes
 CC involved in cellular proliferation or required for proliferation of a
 CC prokaryotic cell using the vector, a method of identifying compounds that
 CC inhibit the proliferation of a prokaryotic cell using the vector, a
 CC method of identifying a compound that reduces the activity or level of a
 CC gene product required for proliferation of a cell using the vector, a

CC compound identified by the methods, a method of inhibiting the activity
 CC or expression of a gene in an operon required for proliferation using the
 CC vector, manufacturing an antibiotic comprising using the vector or cell
 CC and identifying a nucleic acid with promoter activity in *Enterococcus*
 CC *faecalis*. The fusion promoters are useful for regulating nucleic acid or
 CC polypeptide expression, particularly for regulating gene expression in
 CC bacteria and for identifying proliferation-required genes or molecules
 CC with potential antibiotic activity. The modified promoters are also
 CC useful for replacing endogenous promoters to create cells with specific
 CC regulatable genes. The present sequence is an oligonucleotide used to
 CC construct a fusion promoter sequence of the invention. (Updated on 07-AUG
 CC -2003 to correct OS field.)

SQ Sequence 95 BP, 39 A, 11 C, 9 G, 36 T, 0 U, 0 Other;
 Query Match 100.0%; Score 51; DB 6; Length 95;
 Best Local Similarity 100.0%; Pred. No. 2.1e-05;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATTAATAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
 DB 93 TCATTAATAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 43

RESULT 11
 ACD13841/c
 ID ACD13841 standard; DNA; 95 BP.

XX ACD13841;

XX 15-AUG-2003 (first entry)

XX Oligonucleotide Xyl-T5 complement.

XX Promoter; ss; gram positive bacteria; *Staphylococcus aureus*;
 KW *Enterococcus faecalis*; operator; xylO; teco; trpO; malO; lambda-clO;
 KW cellular proliferation.

XX *Escherichia coli*.
 OS Synthetic.
 OS Unidentified.

XX US2003027286-A1.

XX 06-FEB-2003.

XX 21-DEC-2001; 2001US-00032393.

XX 06-SEP-2000; 2000US-0230335P.

XX 27-DEC-2000; 2000US-0259434P.

XX (HASE/) HASELBECK R.

XX (WALL/) WALL D.

XX (GROSS/) GROSS M.

XX Haselbeck R, Wall D, Gross M;

XX WPI; 2003-479541/45.

XX Example 1; Page 28; 142pp; English.

XX The invention relates to an isolated nucleic acid comprising a fusion
 CC promoter having at least one promoter that is modified to have altered
 CC activity in at least one gram-positive organism (e.g. *Staphylococcus*
 CC *aureus* or *Enterococcus faecalis*). The promoter is linked to at least one
 CC operator selected from xylO, teco, trpO, malO and lambda-clO, which are
 CC positioned such that the binding of at least one repressor to the
 CC operator represses transcription from the fusion promoter. Also included

CC are a vector comprising the isolated nucleic acid, a host cell comprising
CC the nucleic acid. The fusion promoter is useful for identifying genes
CC involved in cellular proliferation, identifying a compound that reduces
CC the activity or level of a gene product required for proliferation of a
CC cell, inhibiting the activity or expression of a gene in an operon
CC required for proliferation, manufacturing an antibiotic, identifying a
CC gene that is required for proliferation of a prokaryotic cell,
CC identifying a compound that inhibits the proliferation of a prokaryotic
CC cell and regulating gene expression in bacteria. The present sequence is
CC an oligonucleotide used in the construction of a fusion promoter of the
CC invention

XX Sequence 95 BP; 39 A; 11 C; 9 G; 36 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 8; Length 95;

Best Local Similarity 100.0%; Pred. No. 2.1e-05;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 93 TCATATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 43

RESULT 12

AAAN91066

ID AAAN91066 standard; DNA; 200 BP.

XX AAAN91066;

AC AAAN91066;

DT 03-OCT-2002 (revised)

DT 09-JUL-1989 (first entry)

DE Control sequence N25*/O.

KM DNA expression control; ss.

OS Synthetic.

PN EP303925-A.

PD 22-FEB-1989.

PF 08-AUG-1988; 88EP-00112864.

PR 17-AUG-1987; 87CH-00003152.

PA (HOFF) HOFFMANN-LA ROCHE AG.

PI Bujard H, Lanzer M.

DR WPI; 1989-055375/08.

PT Deoxyribonucleic acid data expression control sequences - comprising
PT promoter and operator-repressor-sequences.

PS Disclosure; Fig 7; 65bp; German.

XX This sequence is the operator N25*/O and is inserted into plasmid pDS3
CC for expression of a variety of proteins from pro- and eukaryotic sources.
CC It is prepared as a DNA XhoI/EcoRI frag. This operator/repressor sequence
CC has a high complexing rate and gives good representability. See also
CC N910601-3,5,7,8 and AAAN91070. (Updated on 03-OCT-2002 to add missing OS
CC field.)

XX Sequence 200 BP; 64 A; 33 C; 37 G; 66 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 1; Length 200;

Best Local Similarity 100.0%; Pred. No. 2.1e-05;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 124 TCATATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 174

RESULT 13
AAAN60262
ID AAAN60262 standard; DNA; 202 BP.

XX AAAN60262;

XX 29-MAY-1991 (first entry)

DE Plasmid pDS2/P promoter/operator fusion (PN25K/O).

KM DHR; chloramphenicol acetyl-transferase; malaria SA; IL-2; IFN; insulin;

KM tPA; renin; ds.

OS Synthetic.

PN EP186069-A.

PD 02-JUL-1986.

PF 13-DEC-1985; 85EP-00115921.

PR 17-DEC-1984; 84GB-00031818.

PA (HOFF) HOFFMANN-LA ROCHE AG.

PI Bujard H, Stuber D;

DR WPI; 1986-170629/27.

PT Expression control DNA sequence - comprising T5 promoter combined with
PT DNA sequence which permits control of promoter activity.

PS Disclosure; Fig 7; 26pp; English.

XX Plasmid vectors of the pDS1 family may be used to express a sequence
CC under the control of the coliphage T5 promoter, and one or more
CC sequences which allow control of the promoter. Sequences expressed
CC include products such as dihydrofolate reductase; chloramphenicol acetyl-
CC transferase; malaria surface antigen; IL-2; IFN-alpha, -beta and -gamma;
CC insulin; growth hormones; tPA; human renin etc

XX Sequence 202 BP; 64 A; 34 C; 37 G; 67 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 1; Length 202;

Best Local Similarity 100.0%; Pred. No. 2.1e-05;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 124 TCATATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 174

RESULT 14

AAAN91067

ID AAAN91067 standard; DNA; 207 BP.

XX AAAN91067;

DT 03-OCT-2002 (revised)

DT 09-JUL-1989 (first entry)

DE Control sequence N25OP25.

XX DNA expression control; ss.

OS Synthetic.

PN EP303925-A.

PD 22-FEB-1989.

PF 08-AUG-1988; 88EP-00112864.
 XX 17-AUG-1987; 87CH-00003152.
 PR
 XX (HOFF) HOFFMANN-LA ROCHE AG.
 PA
 XX Bujard H, Langer M;
 PI
 XX WPI, 1989-055375/08.
 DR
 XX Decyribonucleic acid data expression control sequences - comprising
 PT promoter and operator-repressor-sequences.
 PS
 XX Disclosure; Fig 7; 65pp; German.
 CC Sequence is the operator/promoter N25OP29 and is inserted into plasmid
 CC pDS3 for expression of a variety of proteins from pro- and eukaryotic
 CC sources. It is prepared as a DNA XhoI/EcoRI frag. It comprises a low
 CC signal strength/high promoter strength promoter and high complexing rate
 CC operator/repressor. It gives high transcription and translation efficienc
 CC ies and good repressability. See also AAN91060, 1,2,3,5,6,8 and AAN91070.
 CC (Updated on 03-OCT-2002 to add missing OS field.)
 CC
 SQ Sequence 207 BP; 66 A; 37 C; 37 G; 67 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 1; Length 207;
 Best Local Similarity 100.0%; Pred. No. 2,1e-05;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATRAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
 124 TCATRAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 174
 DB

RESULT 15

AAAN60259
 ID AAN60259 standard; DNA; 247 BP.
 XX
 AC AAN60259;
 XX
 DT 27-AUG-2003 (revised)
 DT 29-MAY-1991 (first entry)
 DE
 XX Coliphage PN25 Pre-early promoter of plasmid pDS1, PN25, col+.
 XX
 KM DHFR; chloramphenicol acetyl-transferase; malaria SA; IL-2; IFN; insulin;
 KM tPA; renin.
 XX
 OS Unidentified.
 XX
 PN EP186069-A.
 XX
 PD 02-JUL-1986.
 PF 13-DEC-1985; 85EP-00115921.
 PR 17-DEC-1984; 84GB-00031818.
 XX
 PA (HOFF) HOFFMANN-LA ROCHE AG.
 XX
 PI Bujard H, Stuber D;
 XX
 DR WPI, 1986-170629/27.
 XX
 PT Expression control DNA sequence - comprising T5 promoter combined with
 PT DNA sequence which permits control of promoter activity.
 PS
 XX Disclosure; Fig 2; 26pp; English.

CC Plasmid vectors of the pDS1 family may be used to express a sequence
 CC under the control of a coliphage T5 promoter eg. the coliphage PN25 pre-
 CC early promoter, and one or more sequences which allow control of the
 CC promoter. Sequences expressed include products such as dihydrofolate

CC reductase; chloramphenicol acetyl-transferase; malaria surface antigen;
 CC IL-2; IFN-alpha, -beta and -gamma; insulin; growth hormones; tPA; human
 CC renin etc. (Updated on 27-AUG-2003 to correct OS field.)
 XX
 SQ Sequence 247 BP; 79 A; 44 C; 48 G; 76 T; 0 U; 0 Other;

Query Match 100.0%; Score 51; DB 1; Length 247;
 Best Local Similarity 100.0%; Pred. No. 2,1e-05;
 Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATRAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
 124 TCATRAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 174
 DB

Search completed: April 7, 2004, 04:23:52
 Job time : 246 secs

GenCore version 5.1.6
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CM nucleic - nucleic search, using sw model

Run on: April 7, 2004, 04:19:50 ; Search time 52 Seconds
(without alignments)
544,279 Million cell updates/sec

Title: US-10-032-393-36

Perfect score: 51 tcataaaaatttatttgc.....ttttctgataatagatca 51

Sequence: 1 tcataaaaatttatttgc.....ttttctgataatagatca 51

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: Issued_Patents NA:*

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2: /cgn2_6/prodata/2/ina/5B_COMB.seq:*
3: /cgn2_6/prodata/2/ina/5A_COMB.seq:*
4: /cgn2_6/prodata/2/ina/5B_COMB.seq:*
5: /cgn2_6/prodata/2/ina/PCITUS_COMB.seq:*
6: /cgn2_6/prodata/2/ina/backt11seq1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	33.4	65.5	125	1	US-08-400-864-2
2	33	64.7	171	2	US-08-892-272-3
3	33	64.7	757	2	US-08-892-272-1
4	31.4	61.6	49	1	US-08-400-864-1
5	28.6	56.1	247	3	US-09-344-888A-24
6	28.6	56.1	250	3	US-08-840-466A-25
7	28.6	56.1	250	3	US-09-696-188B-25
8	28.6	56.1	520	1	US-08-268-348A-7
9	28.6	56.1	520	1	US-08-268-348A-9
10	28.6	56.1	1106	1	US-08-041-648-4
11	28.6	56.1	1106	1	US-08-041-648-6
12	28.6	56.1	1106	1	US-08-041-648-8
13	28.6	56.1	3462	4	US-09-742-373-10
14	28.6	56.1	3977	1	US-07-794-400-2
15	28.6	56.1	3977	1	US-07-794-400-13
16	28.6	56.1	3977	1	US-08-041-648-1
17	28.6	56.1	3977	1	US-08-217-529-1
18	28.6	56.1	3977	1	US-08-397-470-2
19	28.6	56.1	3977	1	US-08-397-470-13
20	28.6	56.1	4492	4	US-09-483-419-2
21	28.6	56.1	4492	4	US-09-483-419-2
22	28.6	56.1	4755	4	US-09-837-863-23
23	28.6	56.1	6501	4	US-09-767-515-1
24	28.6	56.1	6501	4	US-09-767-515-2
25	27.2	53.3	1830121	4	US-09-557-884-1
26	27.2	53.3	1830121	4	US-09-557-884-1

c	28	25.4	49.8	843	4	US-09-134-001C-2669	Sequence 2669, App
	29	25	49.0	92407	4	US-09-596-002-36	Sequence 36, Appl
	30	25	49.0	640681	4	US-09-790-988-1	Sequence 1, Appl
	31	24.8	48.6	6152	3	US-08-973-462-1	Sequence 1, Appl
	32	24.4	47.8	2728	4	US-09-620-312D-572	Sequence 572, App
	33	24.4	47.8	15788	4	US-09-920-759-13	Sequence 13, Appl
	34	24.4	47.8	193303	4	US-09-497-855A-37	Sequence 37, Appl
	35	24.4	47.8	193303	4	US-09-497-855A-44	Sequence 44, Appl
	36	24.2	47.5	1650	4	US-09-907-794A-254	Sequence 254, App
	37	24.2	47.5	1650	4	US-09-905-125A-254	Sequence 254, App
	38	24.2	47.5	1650	4	US-09-902-775A-254	Sequence 1, Appl
	39	24	47.1	640681	4	US-09-790-988-1	Sequence 3, Appl
	40	23.8	46.7	786431	4	US-07-751-389-3	Sequence 1, Appl
	41	23.6	46.3	2243	1	US-07-995-657-1	Sequence 1, Appl
	42	23.6	46.3	2243	1	US-08-474-567-1	Sequence 1, Appl
	43	23.6	46.3	2349	2	US-08-974-546-2	Sequence 2, Appl
	44	23.6	46.3	6113	4	US-10-204-708-14	Sequence 14, Appl
	45	23.6	46.3	112132	4	US-09-741-150-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-400-864-2
Sequence 2, Application US/08400864
Patent No. 5721137
GENERAL INFORMATION:
APPLICANT: FRASCOLTI, GIANNI
TITLE OF INVENTION: PLASMID VECTOR AND ITS USE FOR THE
PRODUCTION OF HETEROLOGOUS PROTEINS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESS: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT
STREET: 1765 S. JEFFERSON DAVIS HIGHWAY, FOURTH FLOOR
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/400,864
FILING DATE: 08-MAR-1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: IT 000727 MI94A
FILING DATE: 15-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 2264-083-0
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEO ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 125 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-400-864-2
Query Match 65.5%; Score 33.4; DB 1; Length 125;
Best Local Similarity 95.7%; Pred. No. 0.16;
Matches 45; Conservative 1; Indels 1;

PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT 000727 MI94A
FILING DATE: 15-APR-1994
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 2264-083-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 49 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-400-864-1

Query Match 61.6%; Score 31.4; DB 1; Length 49;
Best Local Similarity 95.6%; Pred. No. 0.57;
Matches 43; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

QY 6 AAAAAATTATTGCTTCAGGAAA-TTTTCTGTATTAATAGATT 49
DB 5 AAAAAATTATTGCTTCAGGAAAATTTTATGTATTAATAGATT 49

RESULT 5
US-09-344-888A-24
Sequence 24, Application US/09344888A
Patent No. 6291245
GENERAL INFORMATION:
APPLICANT: Kopeckzki, Erhard
APPLICANT: Schantz, Christian
TITLE OF INVENTION: New Host-Vector System
FILE REFERENCE: CD20315
CURRENT APPLICATION NUMBER: US/09/344,888A
CURRENT FILING DATE: 1999-06-25
PRIOR APPLICATION NUMBER: EP96113156.8
PRIOR FILING DATE: 1998-07-15
PRIOR APPLICATION NUMBER: EP96119078.8
PRIOR FILING DATE: 1998-10-09
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 24
LENGTH: 247
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: expression cassette
US-09-344-888A-24

Query Match 56.1%; Score 28.6; DB 3; Length 247;
Best Local Similarity 72.5%; Pred. No. 3.8; Indels 0; Gaps 0;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCATATAAAATTTATTGCTTCAGGAAAATTTTCTGTATTAATAGATTCA 51
DB 10 TCATATAAAATTTATTGCTTCAGGCGATTAACATTATTAATAGATTCA 60

RESULT 6
US-08-840-466A-25
Sequence 25, Application US/08840466A
Patent No. 6261561
GENERAL INFORMATION:
APPLICANT: Stewart, C. Neal
McKee, Marian L.
O'Brien, Alison D.
Machael, Marian P.

By Administration Of Host Organisms That Express Intimin
Alone Or As A Fusion Protein With One Or More Other
Antigens.

NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
Dunnet, L.L.P.
STREET: 1300 I Street, N.W., Suite 700
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/840,466A
FILING DATE: 18-Apr-1997
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Boone, Laurel S.
REGISTRATION NUMBER: 43,505
REFERENCE/DOCKET NUMBER: 04995,0029-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400

INFORMATION FOR SEQ ID NO: 25:

SEQUENCE CHARACTERISTICS:
LENGTH: 250 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 25:

US-08-840-466A-25

Query Match 56.1%; Score 28.6; DB 3; Length 250;
Best Local Similarity 72.5%; Pred. No. 3.8; Indels 0; Gaps 0;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCATATAAAATTTATTGCTTCAGGAAAATTTTCTGTATTAATAGATTCA 51
DB 10 TCATATAAAATTTATTGCTTCAGGCGATTAACATTATTAATAGATTCA 60

RESULT 7
US-09-696-188B-25
Sequence 25, Application US/09696188B
Patent No. 6406885

GENERAL INFORMATION:
APPLICANT: Stewart, C. Neal
McKee, Marian L.
O'Brien, Alison D.
Machael, Marian R.

TITLE OF INVENTION: Method Of Stimulating An Immune Response
By Administration Of Host Organisms That Express Intimin
Alone Or As A Fusion Protein With One Or More Other
Antigens.

NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:

ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
Dunnet, L.L.P.
STREET: 1300 I Street, N.W., Suite 700
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/696,188B
FILING DATE: 26-Oct-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/840,466
FILING DATE: 1997-04-18
ATTORNEY/AGENT INFORMATION:
NAME: Boone, Laurel S.
REGISTRATION NUMBER: 43,505
REFERENCE/DOCKET NUMBER: 04995,0029-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 250 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 25:
US-09-696-188B-25

Query Match 56.1%; Score 28.6; DB 4; Length 250;
Best Local Similarity 72.5%; Pred. No. 3.8;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCATAAAATTTATTGCTTTCAGGAAATTTCTGTATATAGATTCA 51
Db 10 TCATAAAATTTATTGCTTGTGAGCGATACAAATTATATAGATTCA 60

RESULT 8
US-08-268-348A-7
Sequence 7, Application US/08268348A
Patent No. 5750374
GENERAL INFORMATION:
APPLICANT: Dobell, Heinz
APPLICANT: Draeger, Nicholas
APPLICANT: Trotterman, Gerda H
APPLICANT: Jakob, Peter
APPLICANT: Struber, Dietrich
TITLE OF INVENTION: Process for Producing Hydrophobic
TITLE OF INVENTION: Polypeptides and Proteins for Use in
TITLE OF INVENTION: Producing Same
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 07110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/268,348A
FILING DATE: 29-JUN-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 93110755.1
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Parise, John P.
REGISTRATION NUMBER: 34,403
REFERENCE/DOCKET NUMBER: 4105/157
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 235-6326

TELEFAX: (201) 235-3500
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 520 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 115..516
OTHER INFORMATION: /product= "Amyloid Protein AA"
US-08-268-348A-7

Query Match 56.1%; Score 28.6; DB 1; Length 520;
Best Local Similarity 72.5%; Pred. No. 4;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCATAAAATTTATTGCTTTCAGGAAATTTCTGTATATAGATTCA 51
Db 10 TCATAAAATTTATTGCTTGTGAGCGATACAAATTATATAGATTCA 60

RESULT 9
US-08-268-348A-9
Sequence 9, Application US/08268348A
Patent No. 5750374
GENERAL INFORMATION:
APPLICANT: Dobell, Heinz
APPLICANT: Draeger, Nicholas
APPLICANT: Trotterman, Gerda H
APPLICANT: Jakob, Peter
APPLICANT: Struber, Dietrich
TITLE OF INVENTION: Process for Producing Hydrophobic
TITLE OF INVENTION: Polypeptides and Proteins for Use in
TITLE OF INVENTION: Producing Same
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 07110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/268,348A
FILING DATE: 29-JUN-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 93110755.1
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Parise, John P.
REGISTRATION NUMBER: 34,403
REFERENCE/DOCKET NUMBER: 4105/157
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 235-6326
TELEFAX: (201) 235-3500
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 520 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 115..516

OTHER INFORMATION: /product= "Amyloid Protein AA"

US-08-268-348A-9

Query Match 56.1%; Score 28.6; DB 1; Length 520;
Best Local Similarity 72.5%; Pred. No. 4;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCATATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 10 TCATATAAAATTTATTTGCTTCAGGCGGATTAACATTAATATAGATTCA 60

RESULT 10

US-08-041-648-4
Sequence 4, Application US/08041648
Patent No. 5486463
GENERAL INFORMATION:
APPLICANT: Lesslauer, Werner
APPLICANT: L. tscher, Hansruedi
APPLICANT: St ber, Dietrich
TITLE OF INVENTION: TNF-MUTINS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: George M. Gould, Esq., Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 07110-1199
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/041,648
FILING DATE: 1-APR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 92810249.0
FILING DATE: 2-APR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Roseman, Catherine R.
REGISTRATION NUMBER: 34240
REFERENCE/DOCKET NUMBER: RAN 4105/147
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 235-6208
TELEFAX: (201) 235-3500
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 1106 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Plasmid pDS56/RBSII.SphI-THFalpha (Trp32)
FEATURE:
NAME/KEY: CDS
LOCATION: 994..1104
US-08-041-648-4

Query Match 56.1%; Score 28.6; DB 1; Length 1106;
Best Local Similarity 72.5%; Pred. No. 4.1;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

* QY 1 TCATATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 886 TCATATAAAATTTATTTGCTTCAGGCGGATTAACATTAATATAGATTCA 936

RESULT 11

US-08-041-648-6
Sequence 6, Application US/08041648
Patent No. 5486463
GENERAL INFORMATION:
APPLICANT: Lesslauer, Werner
APPLICANT: L. tscher, Hansruedi
APPLICANT: St ber, Dietrich
TITLE OF INVENTION: TNF-MUTINS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: George M. Gould, Esq., Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 07110-1199
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/041,648
FILING DATE: 1-APR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 92810249.0
FILING DATE: 2-APR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Roseman, Catherine R.
REGISTRATION NUMBER: 34240
REFERENCE/DOCKET NUMBER: RAN 4105/147
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 235-6208
TELEFAX: (201) 235-3500
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 1106 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Plasmid pDS56/RBSII.SphI-TNFalpha(Ser29)
FEATURE:
NAME/KEY: CDS
LOCATION: 994..1104
US-08-041-648-6

Query Match 56.1%; Score 28.6; DB 1; Length 1106;
Best Local Similarity 72.5%; Pred. No. 4.1;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCATATAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 886 TCATATAAAATTTATTTGCTTCAGGCGGATTAACATTAATATAGATTCA 936

RESULT 12

US-08-041-648-8
Sequence 8, Application US/08041648
Patent No. 5486463
GENERAL INFORMATION:
APPLICANT: Lesslauer, Werner
APPLICANT: L. tscher, Hansruedi
APPLICANT: St ber, Dietrich
TITLE OF INVENTION: TNF-MUTINS
NUMBER OF SEQUENCES: 17

```

CORRESPONDENCE ADDRESS:
ADDRESS: George M. Gould, Esq., Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 07110-1199
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/041,648
FILING DATE: 1-APR-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 92810249.0
FILING DATE: 2-APR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Roseman, Catherine R.
REGISTRATION NUMBER: 34240
REFERENCE/DOCKET NUMBER: RAN 4105/147
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 235-6208
TELEFAX: (201) 235-3500
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 1106 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: N-terminal
ORIGINAL SOURCE:
ORGANISM: Plasmid pDS56/RBSII, SphI-TNFalpha (Ser29Trp32)
FEATURE:
NAME/KEY: CDS
LOCATION: 994..1104
US-08-041-648-8

Query Match          56.1%; Score 28.6; DB 1; Length 1106;
Best Local Similarity 72.5%; Pred. No. 4.1;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 886 TCATATAAAATTATTTGCTTCAGGAGGATACATTAATATAGATTCA 936

RESULT 13
US-09-742-373-10
Sequence 10, Application US/99742373
Patent No. 6562946
GENERAL INFORMATION:
APPLICANT: Althaus, Harald
APPLICANT: Hauser, Hans-Peter
TITLE OF INVENTION: Human Procalcitonin and the Preparation and Use Thereof
FILE REFERENCE: 05552.1445-00
CURRENT APPLICATION NUMBER: US/09/742,373
CURRENT FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 19862434.8
PRIOR FILING DATE: 1999-12-22
PRIOR APPLICATION NUMBER: 10016278.9
PRIOR FILING DATE: 2000-04-03
PRIOR APPLICATION NUMBER: 10027954.6
PRIOR FILING DATE: 2000-06-08
NUMBER OF SEQ ID NOS: 12
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 10
LENGTH: 3462
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TYPE: DNA
ORGANISM: Unknown Organism
FEATURE:
OTHER INFORMATION: Description of Unknown Organism: Vectorsequence,
OTHER INFORMATION: DNA
US-09-742-373-10

Query Match          56.1%; Score 28.6; DB 4; Length 3462;
Best Local Similarity 72.5%; Pred. No. 4.3;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 10 TCATATAAAATTATTTGCTTCAGGAGGATACATTAATATAGATTCA 60

RESULT 14
US-07-794-400-2
Sequence 2, Application US/07794400
Patent No. 5422104
GENERAL INFORMATION:
APPLICANT: Piers, W.
APPLICANT: Tavernier, J.
APPLICANT: Van Oostede, X.
TITLE OF INVENTION: TNF-Mutins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESS: Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: New Jersey
COUNTRY: USA
ZIP: 07110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/794,400
FILING DATE: 19911120
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 90810901.0
FILING DATE: 21-NOV-1990
ATTORNEY/AGENT INFORMATION:
NAME: Krovacln, William
REGISTRATION NUMBER: 33256
REFERENCE/DOCKET NUMBER: 4105/136-00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 235-4387
TELEFAX: (201) 235-3500
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 3977 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (recombinant plasmid)
IMMEDIATE SOURCE:
CLONE: pDS56/RBSII, SphI-TNF-alpha
FEATURE:
NAME/KEY: CDS
LOCATION: 115..591
US-07-794-400-2

Query Match          56.1%; Score 28.6; DB 1; Length 3977;
Best Local Similarity 72.5%; Pred. No. 4.3;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATATAGATTCA 51
DB 10 TCATATAAAATTATTTGCTTCAGGAGGATACATTAATATAGATTCA 60
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RESULT 15
US-07-794-400-13
Sequence 13, Application US/07794400
Patent No. 5422104
GENERAL INFORMATION:
APPLICANT: Fiers, W.
APPLICANT: Tavernier, J.
APPLICANT: Van Oostede, X.
TITLE OF INVENTION: TNF-mutins
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: New Jersey
COUNTRY: USA
ZIP: 07110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/794,400
FILING DATE: 19911120
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 90810901.0
FILING DATE: 21-NOV-1990
ATTORNEY/AGENT INFORMATION:
NAME: Kroyatir, William
REGISTRATION NUMBER: 33256
REFERENCE/DOCKET NUMBER: 4105/136-00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (201) 235-4387
TELEFAX: (201) 235-3500
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 3977 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (recombinant plasmid)
IMMEDIATE SOURCE:
CLONE: pDS56/RBSII, sph1-TNF-alpha
FEATURE:
NAME/KEY: CDS
LOCATION: 115..591
FEATURE:
NAME/KEY: Modified site
LOCATION: 202-204, 208-210 and 211-213
OTHER INFORMATION: /note= "N = A, G, C or T"
US-07-794-400-13

Query Match 56.1%; Score 28.6; DB 1; Length 3977;
Best Local Similarity 72.5%; Pred. No. 4.3;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCATATAAAATTTTTCCTTCAGAAATTTTTCGTATATAGATTC A 51
Db 10 TCATATAAAATTTTTCCTTCGTAGAGGATTAACAATTAATATAGATTC A 60
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Search completed: April 7, 2004, 05:43:46
Job time : 56 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 7, 2004, 04:12:30 ; Search time 1006 Seconds

(without alignments)
189.995 Million cell updates/sec

Title: US-10-032-393-36

Perfect score: 51

Sequence: 1 tcataaaattatttgcgt.....ttctctgataatagattca 51

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Searched: 2470632 seqs, 1873875610 residues

Total number of hits satisfying chosen parameters: 4941264

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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3	51	100.0	80	9	US-09-788-297-7
4	51	100.0	80	14	US-10-032-393-26
5	51	100.0	94	14	US-10-032-393-5
6	51	100.0	95	14	US-10-032-393-6
7	51	100.0	556	14	US-10-032-393-1
8	51	100.0	5302	15	US-10-385-415-2
9	51	100.0	5767	15	US-10-385-415-4
10	51	100.0	6852	14	US-10-032-393-16
11	51	98.0	1246	9	US-09-815-242-3094
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14	43	84.3	80	14	US-10-032-393-22
15	43	84.3	95	14	US-10-032-393-23

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17	29.8	58.4	113515	14	US-10-311-455-2148
18	28.6	56.1	82	14	US-10-288-858-13
19	28.6	56.1	94	14	US-10-032-393-12
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21	28.6	56.1	134	14	US-10-284-083-3
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45	28.6	56.1	3900	15	US-10-385-415-9

ALIGNMENTS

RESULT 1

US-10-032-393-36

Sequence 36, Application US/1003393

Publication No. US20030027286A1

GENERAL INFORMATION:

APPLICANT: Haselbeck, Robert

APPLICANT: Wall, Daniel

FILE REFERENCE: Gross, Molly

FILE REFERENCE: ELITRA.010A

CURRENT APPLICATION NUMBER: US/10/032.393

CURRENT FILING DATE: 2001-12-21

PRIOR APPLICATION NUMBER: 60/259,434

PRIOR FILING DATE: 2000-12-27

PRIOR APPLICATION NUMBER: 09/948,993

PRIOR FILING DATE: 2001-09-06

PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-09-06

NUMBER OF SEQ ID NOS: 68

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 36

LENGTH: 51

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Xyl-15 promoter sequence

US-10-032-393-36

Query Match 100.0%; Score 51; DB 14; Length 51;

Best Local Similarity 100.0%; Pred. No. 1.7e-05;

Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATAAAATTTATTTGCTTCAGAAATTTTCGTATATAGATTCA 51

DB 1 TCATAAAATTTATTTGCTTCAGAAATTTTCGTATATAGATTCA 51

RESULT 2


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US-09-788-297-6
; Sequence 6, Application US/09788297
; Patent No. US20020094516A1
; GENERAL INFORMATION:
; APPLICANT: Calos, Michele P.
; APPLICANT: Scilimenti, Christopher R.
; TITLE OF INVENTION: ALTERED RECOMBINASES FOR GENOME MODIFICATION
; FILE REFERENCE: 8400-0011
; CURRENT APPLICATION NUMBER: US/09/788,297
; CURRENT FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 72
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Ts, oligo 1
US-09-788-297-6
```

```
Query Match          100.0%; Score 51; DB 9; Length 72;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 TCATATAAAATTTATTGCTTCAGAGAAATTTTCTGTATATAGATTCA 51
DB 2 TCATATAAAATTTATTGCTTCAGAGAAATTTTCTGTATATAGATTCA 52
```

```
RESULT 3
; Sequence 7, Application US/09788297
; Patent No. US20020094516A1
; GENERAL INFORMATION:
; APPLICANT: Calos, Michele P.
; APPLICANT: Scilimenti, Christopher R.
; TITLE OF INVENTION: ALTERED RECOMBINASES FOR GENOME MODIFICATION
; FILE REFERENCE: 8400-0011
; CURRENT APPLICATION NUMBER: US/09/788,297
; CURRENT FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Ts, oligo 2
US-09-788-297-7
```

```
Query Match          100.0%; Score 51; DB 9; Length 80;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 TCATATAAAATTTATTGCTTCAGAGAAATTTTCTGTATATAGATTCA 51
DB 75 TCATATAAAATTTATTGCTTCAGAGAAATTTTCTGTATATAGATTCA 25
```

```
RESULT 4
US-10-032-393-26
; Sequence 26, Application US/10032393
; Publication No. US20030027286A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Wall, Daniel
; APPLICANT: Gross, Molly
; TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE
; FILE REFERENCE: ELITRA.010A
; CURRENT APPLICATION NUMBER: US/10/032,393
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/259,434
; PRIOR FILING DATE: 2000-12-27
```

```
; PRIOR APPLICATION NUMBER: 09/948,993
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 80
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Xyl-T5 fusion sequence
US-10-032-393-26
```

```
Query Match          100.0%; Score 51; DB 14; Length 80;
Best Local Similarity 100.0%; Pred. No. 1.9e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 TCATATAAAATTTATTGCTTCAGAGAAATTTTCTGTATATAGATTCA 51
DB 1 TCATATAAAATTTATTGCTTCAGAGAAATTTTCTGTATATAGATTCA 51
```

```
RESULT 5
US-10-032-393-5
; Sequence 5, Application US/10032393
; Publication No. US20030027286A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Wall, Daniel
; APPLICANT: Gross, Molly
; TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE
; FILE REFERENCE: ELITRA.010A
; CURRENT APPLICATION NUMBER: US/10/032,393
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/259,434
; PRIOR FILING DATE: 2000-12-27
; PRIOR APPLICATION NUMBER: 09/948,993
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 94
; TYPE: DNA
; ORGANISM: Escherichia coli
; FEATURE:
; OTHER INFORMATION: Oligonucleotide Xyl-T5
US-10-032-393-5
```

```
Query Match          100.0%; Score 51; DB 14; Length 94;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 TCATATAAAATTTATTGCTTCAGAGAAATTTTCTGTATATAGATTCA 51
DB 6 TCATATAAAATTTATTGCTTCAGAGAAATTTTCTGTATATAGATTCA 56
```

```
RESULT 6
US-10-032-393-6/c
; Sequence 6, Application US/10032393
; Publication No. US20030027286A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Wall, Daniel
; APPLICANT: Gross, Molly
; TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE
; FILE REFERENCE: ELITRA.010A
; CURRENT APPLICATION NUMBER: US/10/032,393
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/259,434
; PRIOR FILING DATE: 2000-12-27
```

```

; PRIOR FILING DATE: 2000-12-27
; PRIOR APPLICATION NUMBER: 09/948,993
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 95
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide Xyl-T5 complement
US-10-032-393-6
```

```

Query Match          100.0%; Score 51; DB 14; Length 95;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATTAATAGATTCA 51
Db 93 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATTAATAGATTCA 43
```

```

RESULT 7
US-10-032-393-1
; Sequence 1, Application US/10032393
; Publication No. US20030027286A1
; GENERAL INFORMATION:
; APPLICANT: Haeselbeck, Robert
; APPLICANT: Wall, Daniel
; APPLICANT: Gross, Molly
; TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE
; FILE REFERENCE: ELITRA 010A
; CURRENT APPLICATION NUMBER: US/10/032,393
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/259,434
; PRIOR FILING DATE: 2000-12-27
; PRIOR APPLICATION NUMBER: 09/948,993
; PRIOR FILING DATE: 2001-09-06
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 556
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Sequence map showing the Xyl-T5 fusion promoter
; OTHER INFORMATION: and associated DNA sequences
US-10-032-393-1
```

```

Query Match          100.0%; Score 51; DB 14; Length 556;
Best Local Similarity 100.0%; Pred. No. 2.8e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATTAATAGATTCA 51
Db 6 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATTAATAGATTCA 56
```

```

RESULT 8
US-10-385-415-2
; Sequence 2, Application US/10385415
; Publication No. US20040014158A1
; GENERAL INFORMATION:
; APPLICANT: Bacher, Adelbert
; APPLICANT: Fischer, Markus
; TITLE OF INVENTION: PROTEIN CONJUGATES, METHOD, VECTORS, PROTEINS AND DNA FOR
; TITLE OF INVENTION: PRODUCING THEM, THEIR USE AND MEDICAMENTS AND VACCINES CONTAININ
; TITLE OF INVENTION: A CERTAIN QUANTITY OF SAID PROTEIN CONJUGATES
; FILE REFERENCE: 9286.6CT
```

```

; CURRENT APPLICATION NUMBER: US/10/385,415
; CURRENT FILING DATE: 2003-03-10/936,028
; PRIOR APPLICATION NUMBER: US 09/936,028
; PRIOR FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: PCT/EP00/01899
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: DE 19910102.7
; PRIOR FILING DATE: 1999-03-08
; NUMBER OF SEQ ID NOS: 154
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 5302
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: p6021-CAT Expression vector
US-10-385-415-2
```

```

Query Match          100.0%; Score 51; DB 15; Length 5302;
Best Local Similarity 100.0%; Pred. No. 4.3e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATTAATAGATTCA 51
Db 134 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATTAATAGATTCA 184
```

```

RESULT 9
US-10-385-415-4
; Sequence 4, Application US/10385415
; Publication No. US20040014158A1
; GENERAL INFORMATION:
; APPLICANT: Bacher, Adelbert
; APPLICANT: Fischer, Markus
; APPLICANT: Gross, Molly
; TITLE OF INVENTION: PROTEIN CONJUGATES, METHOD, VECTORS, PROTEINS AND DNA FOR
; TITLE OF INVENTION: PRODUCING THEM, THEIR USE AND MEDICAMENTS AND VACCINES CONTAININ
; TITLE OF INVENTION: A CERTAIN QUANTITY OF SAID PROTEIN CONJUGATES
; FILE REFERENCE: 9286.6CT
; CURRENT APPLICATION NUMBER: US/10/385,415
; CURRENT FILING DATE: 2003-03-10
; PRIOR APPLICATION NUMBER: US 09/936,028
; PRIOR FILING DATE: 2002-01-31
; PRIOR APPLICATION NUMBER: PCT/EP00/01899
; PRIOR FILING DATE: 2000-03-03
; PRIOR APPLICATION NUMBER: DE 19910102.7
; PRIOR FILING DATE: 1999-03-08
; NUMBER OF SEQ ID NOS: 154
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 5767
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: p602-Bs-lusY Expression plasmid
US-10-385-415-4
```

```

Query Match          100.0%; Score 51; DB 15; Length 5767;
Best Local Similarity 100.0%; Pred. No. 4.4e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATTAATAGATTCA 51
Db 134 TCATATAAAATTATTTGCTTCAGGAAATTTTCTGTATTAATAGATTCA 184
```

```

RESULT 10
US-10-032-393-16
; Sequence 16, Application US/10032393
; Publication No. US20030027286A1
; GENERAL INFORMATION:
; APPLICANT: Haeselbeck, Robert
; APPLICANT: Wall, Daniel
; APPLICANT: Gross, Molly
```

TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE
FILE REFERENCE: ELITRA.010A
CURRENT APPLICATION NUMBER: US/10/032.393
CURRENT FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/259,434
PRIOR FILING DATE: 2000-12-27
PRIOR APPLICATION NUMBER: 09/948,993
PRIOR FILING DATE: 2001-09-06
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
NUMBER OF SEQ ID NOS: 68
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 16
LENGTH: 6852
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Vector pXyl-T5 p15a
US-10-032-393-16

Query Match 100.0%; Score 51; DB 14; Length 6852;
Best Local Similarity 100.0%; Pred. No. 4.5e-05;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATATAAAATTATTGCTTCAGGAAAATTTTCTGTATATAGATTCA 51
Db 1367 TCATATAAAATTATTGCTTCAGGAAAATTTTCTGTATATAGATTCA 1417

RESULT 11
US-09-815-242-3094
Sequence 3094, Application US/09815242
Patent No. US20020061569A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.
APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3094
LENGTH: 1246
TYPE: DNA
ORGANISM: Staphylococcus aureus
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(1246)
OTHER INFORMATION: n = A,T,C or G
US-09-815-242-3094

Query Match 98.0%; Score 50; DB 9; Length 1246;
Best Local Similarity 98.0%; Pred. No. 6.3e-05;
Matches 50; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCATATAAAATTATTGCTTCAGGAAAATTTTCTGTATATAGATTCA 51
Db 13 TCATATAAAATTATTGCTTCAGGAAAATTTTCTGTATATAGATTCA 63

RESULT 12
US-10-032-393-37
Sequence 37, Application US/10032393
Publication No. US20030027286A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Wall, Daniel
APPLICANT: Gross, Molly
TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE
FILE REFERENCE: ELITRA.010A
CURRENT APPLICATION NUMBER: US/10/032.393
CURRENT FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/259,434
PRIOR FILING DATE: 2000-12-27
PRIOR APPLICATION NUMBER: 09/948,993
PRIOR FILING DATE: 2001-09-06
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-03-06
NUMBER OF SEQ ID NOS: 68
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 37
LENGTH: 51
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Xyl-T5-DD promoter sequence
US-10-032-393-37

Query Match 84.3%; Score 43; DB 14; Length 51;
Best Local Similarity 90.2%; Pred. No. 0.0033;
Matches 46; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 TCATATAAAATTATTGCTTCAGGAAAATTTTCTGTATATAGATTCA 51
Db 1 TCATATAAAATTATTGCTTCAGGAAAATTTTCTGTATATAGATTCA 51

RESULT 13
US-10-032-393-27
Sequence 27, Application US/10032393
Publication No. US20030027286A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Wall, Daniel
APPLICANT: Gross, Molly
TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE
FILE REFERENCE: ELITRA.010A
CURRENT APPLICATION NUMBER: US/10/032.393
CURRENT FILING DATE: 2001-12-21
PRIOR APPLICATION NUMBER: 60/259,434
PRIOR FILING DATE: 2000-12-27
PRIOR APPLICATION NUMBER: 09/948,993
PRIOR FILING DATE: 2001-09-06
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
NUMBER OF SEQ ID NOS: 68
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 27
LENGTH: 80
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Xyl-T5-DD fusion sequence
US-10-032-393-27

Wed Apr 7 10:06:43 2004

us-10-032-393-36.rnpb

Page 5

Query Match 84.3% Score 43; DB 14; Length 80;

Best Local Similarity 90.2%; Pred. No. 0.0036;

Matches 46; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

1 TCATATAAAATTTATTGCTTTCAGGAAATTTTCGTATATAGATTCA 51

1 TCATATAAAATTTATTGCTTTCAGGAAATTTTCGTATATAGATTCA 51

US-10-032-393-22

Sequence 22, Application US/10032393

Publication No. US20030027286A1

GENERAL INFORMATION:

APPLICANT: Haselbeck, Robert

APPLICANT: Wall, Daniel

APPLICANT: Gross, Molly

TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE

FILE REFERENCE: ELITRA.010A

CURRENT APPLICATION NUMBER: US/10/032,393

PRIOR FILING DATE: 2001-12-21

PRIOR APPLICATION NUMBER: 60/259,434

PRIOR FILING DATE: 2000-12-27

PRIOR APPLICATION NUMBER: 09/948,993

PRIOR FILING DATE: 2001-09-06

PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-09-06

NUMBER OF SEQ ID NOS: 68

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 22

LENGTH: 94

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Oligonucleotide Xyl-T5-DD

US-10-032-393-22

RESULT 15

US-10-032-393-23/c

Sequence 23, Application US/10032393

Publication No. US20030027286A1

GENERAL INFORMATION:

APPLICANT: Haselbeck, Robert

APPLICANT: Wall, Daniel

APPLICANT: Gross, Molly

TITLE OF INVENTION: BACTERIAL PROMOTERS AND METHODS OF USE

FILE REFERENCE: ELITRA.010A

CURRENT APPLICATION NUMBER: US/10/032,393

PRIOR FILING DATE: 2001-12-21

PRIOR APPLICATION NUMBER: 60/259,434

PRIOR FILING DATE: 2000-12-27

PRIOR APPLICATION NUMBER: 09/948,993

PRIOR FILING DATE: 2001-09-06

PRIOR APPLICATION NUMBER: 60/230,335

PRIOR FILING DATE: 2000-09-06

NUMBER OF SEQ ID NOS: 68

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 23

LENGTH: 95

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Oligonucleotide Xyl-T5-DD complement

US-10-032-393-23

Query Match 84.3% Score 43; DB 14; Length 95;

Best Local Similarity 90.2%; Pred. No. 0.0037;

Matches 46; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

1 TCATATAAAATTTATTGCTTTCAGGAAATTTTCGTATATAGATTCA 51

93 TCATATAAAATTTATTGCTTTCAGGAAATTTTCGTATATAGATTCA 43

Search completed: April 7, 2004, 05:42:40

Job time : 1006 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 7, 2004, 03:21:00 ; Search time 2008 Seconds

(without alignments)
758,452 Million cell updates/sec

Title: US-10-032-393-36

Perfect score: 51

Sequence: 1 tcaataaaatttatttgcct.....tttctgtatcatagattca 51

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 27513289 segs, 14931090276 residues

Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 10%
Listing first 45 summaries

Database :

EST:*
1: em_estdb:*
2: em_esthum:*
3: em_estin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hrc:*
9: gb_est1:*
10: gb_est2:*
11: gb_hrc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_dln:*
20: em_gss_yrc:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rtd:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	30.2	59.2	318	14	CF350907 r156h06.Y
2	29.4	57.6	358	9	AM049113 UI-M-BH1-
3	29.4	57.6	534	10	BB365884 BB365884
4	29.4	57.6	667	10	BB080413 BB080413

Result No.	Score	Query Match	Length	ID	Description
5	29.4	57.6	768	13	BQ174160 UI-M-DJ2-
6	29.4	57.6	2505	11	AK046039 Mus muscu
7	29.4	57.6	3403	11	AK034193 Mus muscu
8	29.2	57.3	356	9	A1394884 MA001291.
9	29.2	57.3	412	9	AA129512 zq99904.r
10	29.2	57.3	130	28	B2128980 CH230-452
11	29	56.9	595	28	B2145989 CH230-452
12	29	56.9	1048	28	B2184761 CH230-423
13	28.8	56.5	560	28	B2194126 CH230-465
14	28.8	56.5	654	28	B2216912 CH230-417
15	28.8	56.5	773	14	CF406767 CH3#044 C
16	28.8	56.5	775	14	B2192372 CH230-465
17	28.4	55.7	412	29	AG242333 LOCUS COR
18	28.2	55.3	140	28	AF056259 AF056259
19	28.2	55.3	611	28	BH741163 gr28b09.g
20	28.2	55.3	733	28	BH957079 cd102a12.
21	28.2	55.3	757	28	BH992006 oe11c02.
22	28.2	55.3	834	13	BUT746323 CH3#003 D
23	28	54.9	659	14	CB431012 606949 MA
24	28	54.9	729	14	CB430297 606181 MA
25	27.8	54.5	381	10	AW522148 UI-R-B00-
26	27.8	54.5	748	28	BH670666 BOMEC18TF
27	27.6	54.1	438	28	AQ7892840 HS.5380 B
28	27.6	54.1	824	28	BH668814 BOMAE23TF
29	27.4	53.7	571	28	BH506288 BOMAE23TF
30	27.4	53.7	603	9	AA799484 EST188981
31	27.4	53.7	641	28	BZ082391 11e41b09.
32	27.4	53.7	702	29	CE003137 ligR-gss-
33	27.4	53.7	718	28	BH995398 oeg82906.
34	27.4	53.7	760	28	BH605836 BOGXM23TR
35	27.4	53.7	993	28	BH692567 BOMGV76TR
36	27.4	53.7	1340	29	CG751618 P046-1-D0
37	27.2	53.3	101	28	BZ217382 CH230-250
38	27.2	53.3	292	9	AA365198 EST76173
39	27.2	53.3	357	28	BZ269137 CH230-375
40	27.2	53.3	378	28	BZ199225 CH230-495
41	27.2	53.3	450	29	CE706869 ligR-gss-
42	27.2	53.3	544	28	BZ217707 CH230-372
43	27.2	53.3	546	28	BZ177519 CH230-493
44	27.2	53.3	560	28	BZ214923 CH230-466
45	27.2	53.3	631	28	BZ219091 CH230-259

ALIGNMENTS

RESULT 1
CF350907
LOCUS
DEFINITION
r156h06.Y1 Meloidogyne javanica U2 SMART pSEM Meloidogyne javanica
CDNA 5', mRNA sequence.
CF350907
CF350907.1 GI:33953420
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
McCarter,J., Clifton,S., Chiapelli,B., Page,D., Martin,J.,
Wyllie,T., Dante,M., Marra,M., Hillier,L., Kucaba,T., Theising,B.,
Bowers,Y., Gibbons,M., Ritzer,E., Bennett,J., Franklin,C.,
Tsagarisshvili,R., Ronko,I., Kennedy,S., Maguire,L., Beck,C.,
Underwood,K., Steptoe,M., Allen,M., Person,B., Swaller,T.,
Harvey,N., Schurk,R., Kohn,S., Shih,T., Jackson,Y., Cardenas,M.,
McCann,R., Waterston,R. and Wilson,R.
The Washington Univ. Nematode EST Project, 1999
Unpublished (1999)
Contact: McCarter JP
The Washington Univ. Nematode EST Project, 1999
The Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800

Fax: 314 286 1810
Email: east@watson.wustl.edu
Cloned unidirectionally. Poly(A) + RNA was concentrated and purified using Dynabeads (Dyna) and mRNA eluted for first strand synthesis. First strand cDNA was created using MMLV RT (Powerscript, Clontech) and primed with oligo(dT) with XhoI site and 5'SWART 'anchor' added using chimeric DNA-RNA oligo. 12 PCR cycles were done using first strand and primers specific to SWART oligo and 3' end. Double stranded cDNA was digested using XhoI/NotI, fractionated on Chroma-spin 400 columns (Clontech) and ligated to digested pGEM-11zf(+) plasmid. Chemically competent DH10B cells were used as host cells. Library materials provided by Dr. David Bird of North Carolina State University. Library construction by Jeff Rousch. See www.nematode.net for additional project information.
Putative full length read
The vector to vector length is 319
Seq primer: Sp6.

FEATURES

source

Location/Qualifiers
1..318
/organism="Meloidogyne javanica"
/mol_type="mRNA"
/db_xref="taxon:6303"
/tissue_type="whole organism"
/dev_stage="J2"
/lab_host="DH10B"
/clone_lib="Meloidogyne javanica J2 SMART pGEM"
/note="Vector: plasmid (ampicillin resistant); Site 1: XhoI; Site 2: NotI; Cloned unidirectionally. Poly(A) + RNA was concentrated and purified using Dynabeads (Dyna) and mRNA eluted for first strand synthesis. First strand cDNA was created using MMLV RT (Powerscript, Clontech) and primed with oligo(dT) with XhoI site and 5'SWART 'anchor' added using chimeric DNA-RNA oligo. 12 PCR cycles were done using first strand and primers specific to SWART oligo and 3' end. Double stranded cDNA was digested using XhoI/NotI, fractionated on Chroma-spin 400 columns (Clontech) and ligated to digested pGEM-11zf(+) plasmid. Chemically competent DH10B cells were used as host cells. Library materials provided by Dr. David Bird of North Carolina State University. Library construction by Jeff Rousch. See www.nematode.net for additional project information."

ORIGIN

Query Match 59.2%; Score 30.2; DB 14; Length 318;
Best Local Similarity 81.4%; Pred. No. 2.9e+02;
Matches 35; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 2 CATAAAAATTTATTTGCTTCAGGAAATTTTCTGTATAT 44
Db 80 CAAAAGATTTATTTATATCAGGAAATTTTCTGTATAT 122

RESULT 2 358 bp mRNA linear EST 18-SEP-1999
AM049113
LOCUS UI-M-BH1-ant-g-11-0-UI.s1 NIH BMAP M.S2 Mus musculus cDNA clone
DEFINITION UI-M-BH1-ant-g-11-0-UI 3', mRNA sequence.
ACCESSION AM049113
VERSION AM049113.1 GI:5909642
KEYWORDS EST.

SOURCE Mus musculus (house mouse)
ORGANISM

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 358)
AUTHORS Bonaldo, M.F., Lennon, G. and Soares, M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene discovery

JOURNAL Genome Res. 6 (9), 791-806 (1996)
MEDLINE 97044477
PUBMED 8889548
COMMENT Contact: Chin, H

FEATURES

source

Location/Qualifiers
1..358
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone_stage="27-32 days"
/dev_stage="UI-M-BH1-ant-g-11-0-UI"
/lab_host="DH10B (Life Technologies)"
/clone_lib="NIH BMAP M.S2"
/note="Vector: p773D-Pac (Pharmacia) with a modified polylinker; Site 1: NotI; Site 2: EcoRI; The NIH BMAP M.S2 library is a subtracted library derived from NIH BMAP M.S1, which in turn is a subtracted library derived from a mixture of normalized libraries from ten regions of the mouse brain (cerebellum, brain stems, olfactory bulbs, hypothalamus, cortex, amygdala, basal ganglia, pineal gland, striatum, hippocampus). The driver used for subtraction consisted of a pool of 5,000 clones from the NIH BMAP M.S1 library and a pool of 2,000 clones obtained from non-normalized and normalized mouse brain spinal cord libraries.
TAG TISSUE=basal-ganglia
TAG_LIB=NIH_BMAP_M_S2
TAG_SEQ=GTGAC"

ORIGIN

Query Match 57.6%; Score 29.4; DB 9; Length 358;
Best Local Similarity 76.6%; Pred. No. 4.5e+02;
Matches 36; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 3 ATAAAAATTTATTTGCTTCAGGAAATTTTCTGTATATAGAT 49
Db 20 ATATATTTATTTGCTTCAGGAAATTTTCTGTATATACAT 66

RESULT 3 534 bp mRNA linear EST 24-OCT-2001
BB365884
LOCUS BB365884 RIKEN full-length enriched, 16 days embryo head Mus
DEFINITION musculus cDNA clone C130031F03 3', mRNA sequence.
ACCESSION BB365884
VERSION BB365884.2 GI:16406384
KEYWORDS EST.

SOURCE Mus musculus (house mouse)
ORGANISM

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 534)
AUTHORS Arakawa, T., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hiramoto, K., Hori, F., Ishii, Y., Ito, M., Kawai, J., Komno, H., Kouda, M., Koya, S., Matsuyama, T., Miyazaki, A., Nomura, K., Ono, M., Okazaki, Y., Okido, T., Salto, R., Sakai, C., Sakai, K.,

Sanjo, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tagami, M., Tagawa, A., Takahashi, F., Takeda, Y., Tanaka, T., Toyota, T., Muramatsu, M., and Hayashizaki, Y.
 RIKEN Mouse ESTs (Arakawa, T., et al. 2001)
 Unpublished (2001)
 On Jul 12, 2000 this sequence version replaced gi:9077712.
 Contact: Yoshinide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suenho-cho, Tsurumi-Ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 url:http://genome.gsc.riken.go.jp/
 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.
 Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)
 wagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watabiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y.
 RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)
 Kono, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara, Y., and Hayashizaki, Y.
 Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
 Kondo, S., Shinagawa, A., Saito, T., Kiyosawa, H., Yamana, I., Aizawa, K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K., and Hayashizaki, Y.
 Computational Analysis of Full-length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)
 Please visit our web site (http://genome.gsc.riken.go.jp/) for further details.
 cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

FEATURES

Location/Qualifiers
 1..534
 /organism="Mus musculus"
 /mol_type="mRNA"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="C130031F03"
 /sex="mixed"
 /issue_type="head"
 /dev_stage="16 days embryo"
 /lab_host="DH10B"
 /clone_lib="RIKEN full-length enriched, 16 days embryo head"
 /note="Site 1: SalI, Site 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGATCCAGAGCTCTTTTCTTTTCTTTVN 3'], cDNA was prepared by using trihalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGATTCGAGTTTAAATTAATCCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified pluescript KS(+) after bulk excision from Lambda FLX I"

ORIGIN

Query Match 57.6%; Score 29.4; DB 10; Length 534;
 Best Local Similarity 76.6%; Pred. No. 3.9e+02;
 Matches 36; Conservative 0; Mismatches 11; Indels 0;

QY 3 ATAAAAATTATTGCTTTCAGAAATTTTCTGATATAGATT 49
 |||||
 DB 305 ATAAATATTATTGTCATACAGAAATTTATTCTATTATACATT 259

RESULT 4
 BB080413/C 667 bp mRNA linear EST 18-OCT-2001
 LOCUS BB080413 RIKEN full-length enriched, adult male diencephalon Mus
 DEFINITION musculus cDNA clone 9330162L04 3', mRNA sequence.
 ACCESSION BB080413
 VERSION BB080413.2 GI:16260594
 KEYWORDS EST.

SOURCE Mus musculus (house mouse)

ORGANISM

Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 667)

REFERENCE

AUTHORS

TITLE RIKEN Mouse ESTs (Arakawa, T., et al. 2001)
 JOURNAL Unpublished (2001)
 COMMENT On Jun 21, 2000 this sequence version replaced gi:8645473.
 Contact: Yoshinide Hayashizaki
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute
 The Institute of Physical and Chemical Research (RIKEN)
 1-7-22 Suenho-cho, Tsurumi-Ku, Yokohama, Kanagawa 230-0045, Japan
 Tel: 81-45-503-9222
 Fax: 81-45-503-9216
 Email: genome-res@gsc.riken.go.jp,
 url:http://genome.gsc.riken.go.jp/
 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Kono, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.
 Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)
 wagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watabiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y.
 RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)
 Kono, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara, Y., and Hayashizaki, Y.
 Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
 Kondo, S., Shinagawa, A., Saito, T., Kiyosawa, H., Yamana, I., Aizawa, K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K., and Hayashizaki, Y.
 Computational Analysis of Full-length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)
 Please visit our web site (http://genome.gsc.riken.go.jp/) for further details.
 cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

FEATURES

Location/Qualifiers

Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watabiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer
Genome Res. 10 (11), 1757-1771 (2000)

JOURNAL MEDLINE
20530913
11076861

REFERENCE
AUTHORS
TITLE
JOURNAL
NATURE
409, 685-690 (2001)

5
The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.
Functional annotation of a full-length mouse cDNA collection
Nature 409, 685-690 (2001)

6
The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)

JOURNAL
NATURE
420, 563-573 (2002)

6 (bases 1 to 2505)

Aachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hirooka, T., Hirozane, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Kondo, S., Kono, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M., Nakamura, M., Nishi, K., Nomura, K., Numata, R., Ohno, M., Ohsato, N., Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N., Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y.
Direct Submission
Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-res@gsr.riken.go.jp, URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216)

COMMENT
CNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.
Please visit our web site for further details.
URL: http://genome.gsc.riken.go.jp/
URL: http://fantom.gsc.riken.go.jp/.
Location/Qualifiers

FEATURES
Source
1. 2505
/organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="FANTOM_DB:C130031F03"
/db_xref="WGI:2414069"
/db_xref="taxon:10090"
/clone="C130031F03"
/tissue_type="head"
/clone_lib="RIKEN full-length enriched mouse cDNA library"
/dev_stage="16 days embryo"
1. 2505
/note="unknown EST [GB|E1735511, evidence: BLASTV, 99%, match=817]"

ORIGIN
Query Match 57.6%; Score 29.4; DB 11; Length 2505;
Best Local Similarity 76.6%; Pired. No. 2,3e+02;
Matches 36; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QX 3 ATAAATAATTTATTTGCTTCAGGAATAATTTTCGTATATATGATT 49
|||||
Db 2274 ATAAATAATTTATTTGCTTCAGGAATAATTTATTTCTATATATACATT 2228

RESULT 7
AK034193/c
LOCUS
DEFINITION
AK034193 3403 bp mRNA linear HTC 18-SEP-2003
Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library, clone:9330162L04 product:unknown EST, full insert sequence.

ACCESSION
AK034193
AK034193.1 GI:26083816
HTC: CAP trapper.
KEYWORDS
Mus musculus (house mouse)
SOURCE
Mus musculus
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Scurionath; Muridae; Murinae; Mus.

REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
10349636

1
Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)

2
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes
Genome Res. 10 (10), 1617-1630 (2000)

JOURNAL
MEDLINE
PUBMED
20499374
11042159

3
Shibata, K., Itoh, M., Aizawa, K., Nagoka, S., Sasaki, N., Carninci, P., Kono, H., Akiyama, U., Nishi, K., Kitunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwaka, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watabiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer
Genome Res. 10 (11), 1757-1771 (2000)

JOURNAL
MEDLINE
PUBMED
20530913
11076861

4
The RIKEN Genome Exploration Research Group Phase II Team and the FANTOM Consortium.
Functional annotation of a full-length mouse cDNA collection
Nature 409, 685-690 (2001)

5
The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)

JOURNAL
MEDLINE
PUBMED
20530913
11076861

6 (bases 1 to 3403)

Aachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hirooka, T., Hirozane, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Kondo, S., Kono, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M., Nakamura, M., Nishi, K., Nomura, K., Numata, R., Ohno, M., Ohsato, N., Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N., Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y.
Direct Submission
Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-res@gsr.riken.go.jp, URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222,

COMMENT Fax:81-45-503-9216)

CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.
Please visit our web site for further details.
URL: <http://genome.gsc.riken.go.jp/>
URL: <http://fantom.gsc.riken.go.jp/>

FEATURES

Source

Location/Qualifiers

1. 3403

/organism="Mus musculus"

/mol_type="mRNA"

/strain="C57BL/6J"

/db_xref="PANTOM DB:9330162L04"

/db_xref="MG1:2398388"

/db_xref="taxon:10090"

/clone="9330162L04"

/sex="male"

/tissue_type="diencephalon"

/clone_lib="RIKEN full-length enriched mouse cDNA library"

/dev_stage="adult"

1. 3403

/note="unknown EST (GB|BI735511, evidence: BLASTN, 99%, match=817)"

ORIGIN

Query Match

Best Local Similarity 57.6%; Score 29.4; DB 11; Length 3403;

Matches 36; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

3 ATAAATAATTTATTTGCTTCAGGAAATTTTCTGATATAATTAATT 49

3391 ATAAATAATTTATTTGCTTCAGGAAATTTTATTTATTTATTAACATT 3345

Db

RESULT 8
LOCUS AIJ94884 356 bp mRNA linear EST 04-FEB-1999
DEFINITION MA001291. c8f Soares normalized S8W Schistosoma mansoni CDNA 3',
mRNA sequence.

AIJ94884 GI:4224431

AIJ94884

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Best Local Similarity 72.5%; Pred. No. 4.8e+02;
Matches 37; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 1 TCAATAAAATTTATTTGCTTCAGAAATTTTCTGTAATGATCA 51
122 TCAATAAAAGATATTTCTTCTTAATAATTTCTGTATCTAAATTA 72

RESULT 10
BZ128980 130 bp DNA linear GSS 11-OCT-2002
LOCUS CH230-452M22.TV CHORI-230 Segment 2 Rattus norvegicus genomic clone
DEFINITION CH230-452M22, genomic survey sequence.
ACCESSION BZ128980
VERSION BZ128980.1 GI:23769927
KEYWORDS GSS.
SOURCE Rattus norvegicus (Norway rat)
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

REFERENCE 1 (bases 1 to 130)
AUTHORS Zhao,S., Shetty,J., Shatsman,S., Tsegaye,G., Geer,K.,
Shvartsbeyn,A., Gebregeorgis,E., Overton,L., Russell,D., Chen,D.,
Riggs,F., de Jong,P. and Fraser,C.M.
Rat BAC End Sequences from Library CHORI-230 MboI segment
Unpublished (1999)
CONTACT: Shaying Zhao
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0200
Email: szhao@tigr.org
Clones are derived from the rat BAC library CHORI-230
(http://www.chori.org/bacpac/rat230.htm). For BAC library
availability, please contact Pieter de Jong (pdejong@mail.cho.org).
Clones may be purchased from BACPAC Resources
(http://www.chori.org/bacpac/or ering_information.htm). BAC end
page: http://www.tigr.org/tdb/bac_ends/rat/bac_end_intro.html
Plate: 452 row: M column: 22
Seq primer: SP6
Class: BAC ends.

FEATURES
source Location/Qualifiers
1..130
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/strain="BN/SSHsd/MCW"
/db_xref="taxon:10116"
/clone="CH230-452M22"
/sex="Female"
/cell_type="Brain"
/clone_lib="CHORI-230 Segment 2"
/note="Vector: PTABAC1.3; Site_1: MboI; Site_2: MboI;
CHORI-230 Rat (BN/SSHsd/MCW) BAC library produced by
Pieter de Jong"

ORIGIN
Query Match 56.9%; Score 29; DB 28; Length 130;
Best Local Similarity 86.5%; Pred. No. 8e+02;
Matches 32; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 AAAAAATTATTTGCTTCAGAAATTTTCTGTAT 41
10 AAAAAATTGATGCATCATGAAAAATTTTCTGTAT 46

RESULT 11
BZ145989 595 bp DNA linear GSS 11-OCT-2002
LOCUS CH230-452N22.TV CHORI-230 Segment 2 Rattus norvegicus genomic clone
DEFINITION CH230-452N22, genomic survey sequence.
ACCESSION BZ145989

VERSION BZ145989.1 GI:23786936
KEYWORDS GSS.
SOURCE Rattus norvegicus (Norway rat)
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

REFERENCE 1 (bases 1 to 595)
AUTHORS Zhao,S., Shetty,J., Shatsman,S., Tsegaye,G., Geer,K.,
Shvartsbeyn,A., Gebregeorgis,E., Overton,L., Russell,D., Chen,D.,
Riggs,F., de Jong,P. and Fraser,C.M.
Rat BAC End Sequences from Library CHORI-230 MboI segment
Unpublished (1999)
CONTACT: Shaying Zhao
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The Institute for Genomic Research
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Fax: 301 838 0200
Email: szhao@tigr.org
Clones are derived from the rat BAC library CHORI-230
(http://www.chori.org/bacpac/rat230.htm). For BAC library
availability, please contact Pieter de Jong (pdejong@mail.cho.org).
Clones may be purchased from BACPAC Resources
(http://www.chori.org/bacpac/or ering_information.htm). BAC end
page: http://www.tigr.org/tdb/bac_ends/rat/bac_end_intro.html
Plate: 452 row: N column: 22
Seq primer: SP6
Class: BAC ends.

FEATURES
source Location/Qualifiers
1..595
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/strain="BN/SSHsd/MCW"
/db_xref="taxon:10116"
/clone="CH230-452N22"
/sex="Female"
/cell_type="Brain"
/clone_lib="CHORI-230 Segment 2"
/note="Vector: PTABAC1.3; Site_1: MboI; Site_2: MboI;
CHORI-230 Rat (BN/SSHsd/MCW) BAC library produced by
Pieter de Jong"

ORIGIN
Query Match 56.9%; Score 29; DB 28; Length 595;
Best Local Similarity 86.5%; Pred. No. 4.8e+02;
Matches 32; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 AAAAAATTATTTGCTTCAGAAATTTTCTGTAT 41
485 AAAAAATTGATGCATCATGAAAAATTTTCTGTAT 521

RESULT 12
BZ184761 1048 bp DNA linear GSS 11-OCT-2002
LOCUS CH230-423F16.TV CHORI-230 Segment 2 Rattus norvegicus genomic clone
DEFINITION CH230-423F16, genomic survey sequence.
ACCESSION BZ184761
VERSION BZ184761.1 GI:23834700
KEYWORDS GSS.
SOURCE Rattus norvegicus (Norway rat)
ORGANISM Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.

REFERENCE 1 (bases 1 to 1048)
AUTHORS Zhao,S., Shetty,J., Shatsman,S., Tsegaye,G., Geer,K.,
Shvartsbeyn,A., Gebregeorgis,E., Overton,L., Russell,D., Chen,D.,
Riggs,F., de Jong,P. and Fraser,C.M.
Rat BAC End Sequences from Library CHORI-230 MboI segment
Unpublished (1999)

COMMENT

Other GSSs: CH230-423F16.TV
 Contact: Shaying Zhao
 Department of Eukaryotic Genomics
 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850, USA
 Tel: 301 838 0208
 Fax: 301 838 0208

Email: szhao@tigr.org
 Clones are derived from the rat BAC library CHORI-230
 (<http://www.chori.org/bacpac/rac230.htm>). For BAC library
 availability, please contact Pieter de Jong (pdjong@email.cho.org).
 Clones may be purchased from BACPAC Resources
 (<http://www.chori.org/bacpac/orering/information.htm>). BAC end
 page: http://www.tigr.org/tdb/bac_ends/rac/bac_end_intro.html
 Plate: 423 row: F column: 16
 Seg primer: SP6
 Class: BAC ends.

FEATURES

source

Location/Qualifiers
 1..1048

/organism="Rattus norvegicus"
 /mol_type="genomic DNA"
 /strain="BN/SNHsd/MCW"
 /db_xref="taxon:10116"
 /clone="CH230-423F16"
 /sex="Female"
 /cell_type="Brain"
 /clone_lib="CHORI-230 Segment 2"
 /note="Vector: pTARBA1.3; Site 1: MboI; Site 2: MboI;
 CHORI-230 Rat (BN/SNHsd/MCW) BAC library produced by
 Pieter de Jong"

ORIGIN

Query Match 56.5%; Score 29; DB 28; Length 1048;
 Best Local Similarity 86.5%; Pred. No. 4e+02;
 Matches 32; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5 AAAAAAAAAATTATTCCTTCAGGAAAAATTTTCTGTAT 41
 |||||
 DB 108 AAAAAATTTGATTCATTCAGAAAAATTTTCTGTAT 72

RESULT 13 B2194126 560 bp DNA linear GSS 11-OCT-2002
 LOCUS B2194126/c
 DEFINITION CH230-465D15.TVB CHORI-230 Segment 2 Rattus norvegicus genomic
 clone CH230-465D15, genomic survey sequence.

ACCESSION B2194126
 VERSION B2194126.1 GI:23852178
 KEYWORDS GSS.
 SOURCE Rattus norvegicus (Norway rat)
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.

REFERENCE 1 (bases 1 to 560)
 AUTHORS Zhao,S., Shetty,J., Shatsman,S., Tsegaye,G., Geer,K.,
 Shvartsbeyn,A., Gebregorgis,E., Overton,L., Russell,D., Chen,D.,
 Riggs,F., de Jong,P. and Fraser,C.M.
 TITLE Rat BAC End Sequences from Library CHORI-230 MboI segment
 JOURNAL Unpublished (1999)
 COMMENT Other GSSs: CH230-465D15.TVB
 Contact: Shaying Zhao
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 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850, USA
 Tel: 301 838 0208
 Fax: 301 838 0208

EMAIL: szhao@tigr.org
 Clones are derived from the rat BAC library CHORI-230
 (<http://www.chori.org/bacpac/rac230.htm>). For BAC library
 availability, please contact Pieter de Jong (pdjong@email.cho.org).
 Clones may be purchased from BACPAC Resources
 (<http://www.chori.org/bacpac/orering/information.htm>). BAC end

Page: http://www.tigr.org/tdb/bac_ends/rac/bac_end_intro.html
 Plate: 465 row: D column: 15
 Seg primer: SP6
 Class: BAC ends.

FEATURES

source

Location/Qualifiers
 1..560

/organism="Rattus norvegicus"
 /mol_type="genomic DNA"
 /strain="BN/SNHsd/MCW"
 /db_xref="taxon:10116"
 /clone="CH230-465D15"
 /sex="Female"
 /cell_type="Brain"
 /clone_lib="CHORI-230 Segment 2"
 /note="Vector: pTARBA1.3; Site 1: MboI; Site 2: MboI;
 CHORI-230 Rat (BN/SNHsd/MCW) BAC library produced by
 Pieter de Jong"

ORIGIN

Query Match 56.5%; Score 28.8; DB 28; Length 560;
 Best Local Similarity 82.5%; Pred. No. 5.5e+02;
 Matches 33; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 CATAAAAAATTTATTCCTTCAGGAAAAATTTTCTGTAT 41
 |||||
 DB 526 CTTAGAAATTTTATTCATTCATGAAAAATTTTCTGTAT 487

RESULT 14 B2216912 654 bp DNA linear GSS 11-OCT-2002
 LOCUS B2216912/c
 DEFINITION CH230-41703.TV CHORI-230 Segment 2 Rattus norvegicus genomic clone
 CH230-41703, genomic survey sequence.

ACCESSION B2216912
 VERSION B2216912.1 GI:23875270
 KEYWORDS GSS.
 SOURCE Rattus norvegicus (Norway rat)
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.

REFERENCE 1 (bases 1 to 654)
 AUTHORS Zhao,S., Shetty,J., Shatsman,S., Tsegaye,G., Geer,K.,
 Shvartsbeyn,A., Gebregorgis,E., Overton,L., Russell,D., Chen,D.,
 Riggs,F., de Jong,P. and Fraser,C.M.
 TITLE Rat BAC End Sequences from Library CHORI-230 MboI segment
 JOURNAL Unpublished (1999)
 COMMENT Other GSSs: CH230-41703.TV
 Contact: Shaying Zhao
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 The Institute for Genomic Research
 9712 Medical Center Dr., Rockville, MD 20850, USA
 Tel: 301 838 0208
 Fax: 301 838 0208

EMAIL: szhao@tigr.org
 Clones are derived from the rat BAC library CHORI-230
 (<http://www.chori.org/bacpac/rac230.htm>). For BAC library
 availability, please contact Pieter de Jong (pdjong@email.cho.org).
 Clones may be purchased from BACPAC Resources
 (<http://www.chori.org/bacpac/orering/information.htm>). BAC end
 page: http://www.tigr.org/tdb/bac_ends/rac/bac_end_intro.html
 Plate: 417 row: O column: 3
 Seg primer: SP6
 Class: BAC ends.

FEATURES

source

Location/Qualifiers
 1..654

/organism="Rattus norvegicus"
 /mol_type="genomic DNA"
 /strain="BN/SNHsd/MCW"
 /db_xref="taxon:10116"
 /clone="CH230-41703"
 /sex="Female"
 /cell_type="Brain"

Job time : 2013 secs

/clone_lib="CHORI-230 Segment 2"
 /note="vector: PTRABAC1.3; Site 1: Mbol; site 2: Mbol;
 CHORI-230 Rat (BN/Savhad/MCM) BAC library produced by
 Pieter de Jong"

ORIGIN

Query Match 56.5%; Score 28.8; DB 28; Length 654;
 Best Local Similarity 82.5%; Pred. No. 5.2e+02;
 Matches 33; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 2 CATATAAATTATTTGCTTCAGGAAATTTTCTGTAT 41
 |||||
 Db 513 CTGAAATTTTAAATTCATTCATGAAATTTTCTGTAT 474

RESULT 15

CP406767/c

LOCUS CP406767 773 bp mRNA linear EST 02-SEP-2003
 DEFINITION CH3#044_C08T3 Canine heart normalized cDNA library in pBluescript

ACCESSION CP406767
 Canis familiaris cDNA clone CH3#044_C08 3', mRNA sequence.

VERSION CP406767.1 GI:34407011
 KEYWORDS EST.

SOURCE
 ORGANISM Canis familiaris (dog)

REFERENCE
 AUTHORS Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
 TITLE 1 (bases 1 to 773)
 JOURNAL Yi.Y., Desai.R., Olarte.M., Henthorn.P. and George A.L.
 COMMENT Unpublished (2003)
 Other ESTs: CH3#044_C08T7
 Contact: George AL
 Division of Genetic Medicine
 Vanderbilt University
 529 Light Hall, 2215 Garland Avenue, Nashville, TN 37232-0275, USA
 Tel: 615 936 2660
 Fax: 615 936 2661
 Email: al.george@vanderbilt.edu
 Insert Length: 1448 Std Error: 0.00
 Seq primer: T3: ATTACCCCTCAGTAAGGGA
 High quality sequence start: 64
 High quality sequence stop: 733.
 Location/Qualifiers

FEATURES
 source
 1..773
 /organism="Canis familiaris"
 /mol_type="mRNA"
 /db_xref="taxon:9615"
 /clone="CH3#044_C08"
 /tissue_type="heart"
 /cell_type="heart"
 /dev_stage="mixed developmental stages (adult, 30 day - 40 day fetal)"
 /clone_lib="Canine heart normalized cDNA library in pBluescript"
 /note="Organ: heart; Vector: pBluescript; Site 1: 5' of vector NotI; Site 2: 3' of vector EcoRI; Tissue source: dog heart (adult, 30 day - 40 day fetal), right and left atria and ventricle. Dog breed - mixed (beagle, German shepherd, pointer, Irish setter). Library construction: oligo-dT primed"

ORIGIN

Query Match 56.5%; Score 28.8; DB 14; Length 773;
 Best Local Similarity 75.0%; Pred. No. 4.9e+02;
 Matches 36; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 2 CATATAAATTATTTGCTTCAGGAAATTTTCTGTATAATAGATT 49
 |||||
 Db 238 CTGAAATTTTAAATTCATTCATGAAATTTTCTGTATGATGACT 191

Search completed: April 7, 2004, 05:25:48